Railroad Commission of Texas

Filing Completions for Oil, Gas and Underground Injection Control

August 25, 2021

The meeting will begin shortly.

Filing Completions for Oil, Gas & UIC

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August 25, 2021

Power Point Presentation

This presentation is available for download from the RRC website at:

https://www.rrc.texas.gov/oil-and-gas/workshops-and-conferences/rrc-regulatory-webinars/regulatory-webinars-2021-schedule/

COMPLETIONS
OVERVIEW AND DISCUSSION

Form W-2/G-1

Class Synopsis

This presentation is a general overview of how to file Completion Reports utilizing the Railroad Commission of Texas Online Completion Filing System.

Texas Administrative Code Rule 3.16

Completion Reports are **due**:

- within **90 days** after completion of the well
- or within **150 days** after the drilling operation is completed
- **whichever** is earlier

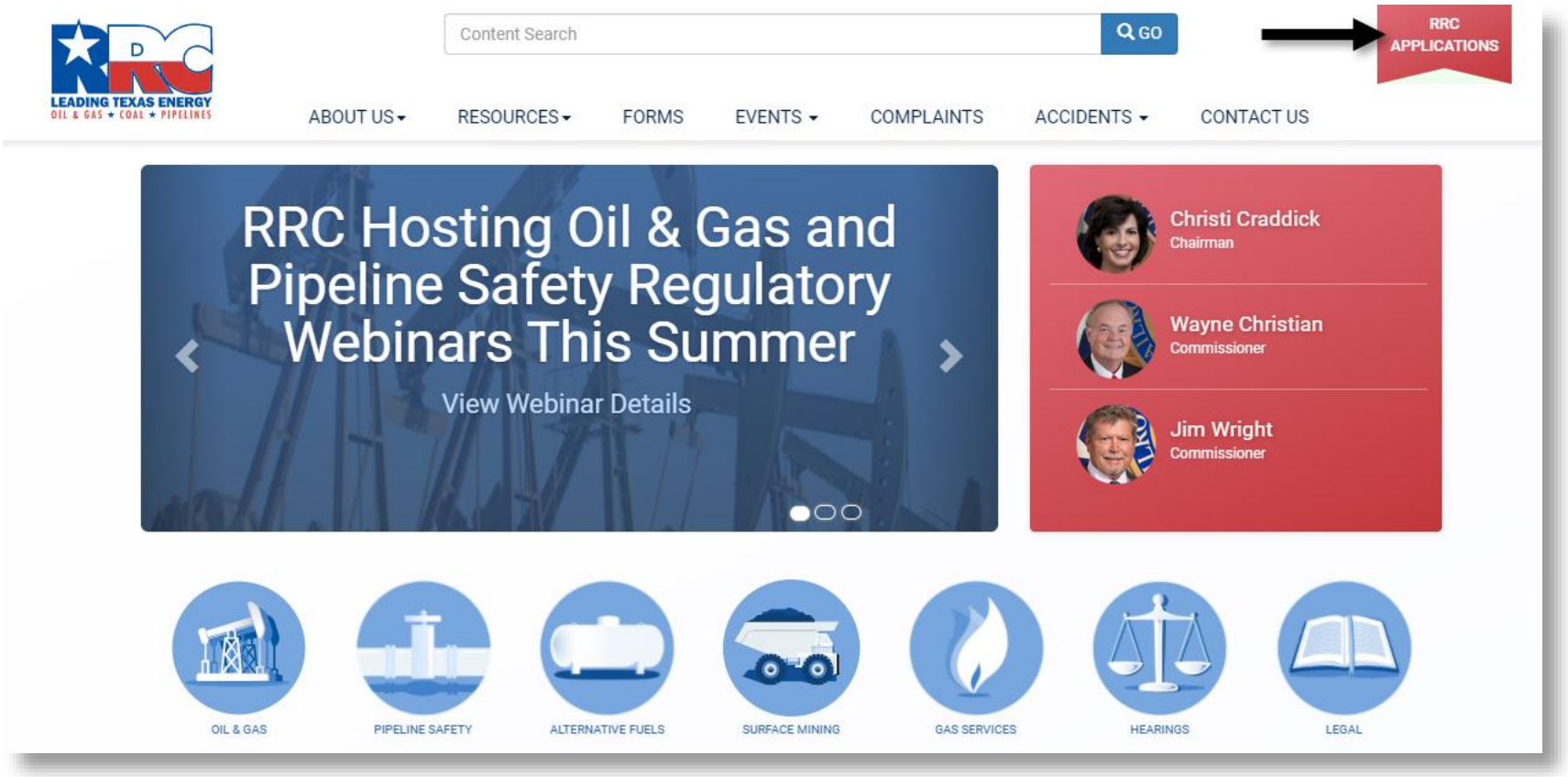
Rule 3.16 (cont'd)

Subsequent Completion Reports are due:

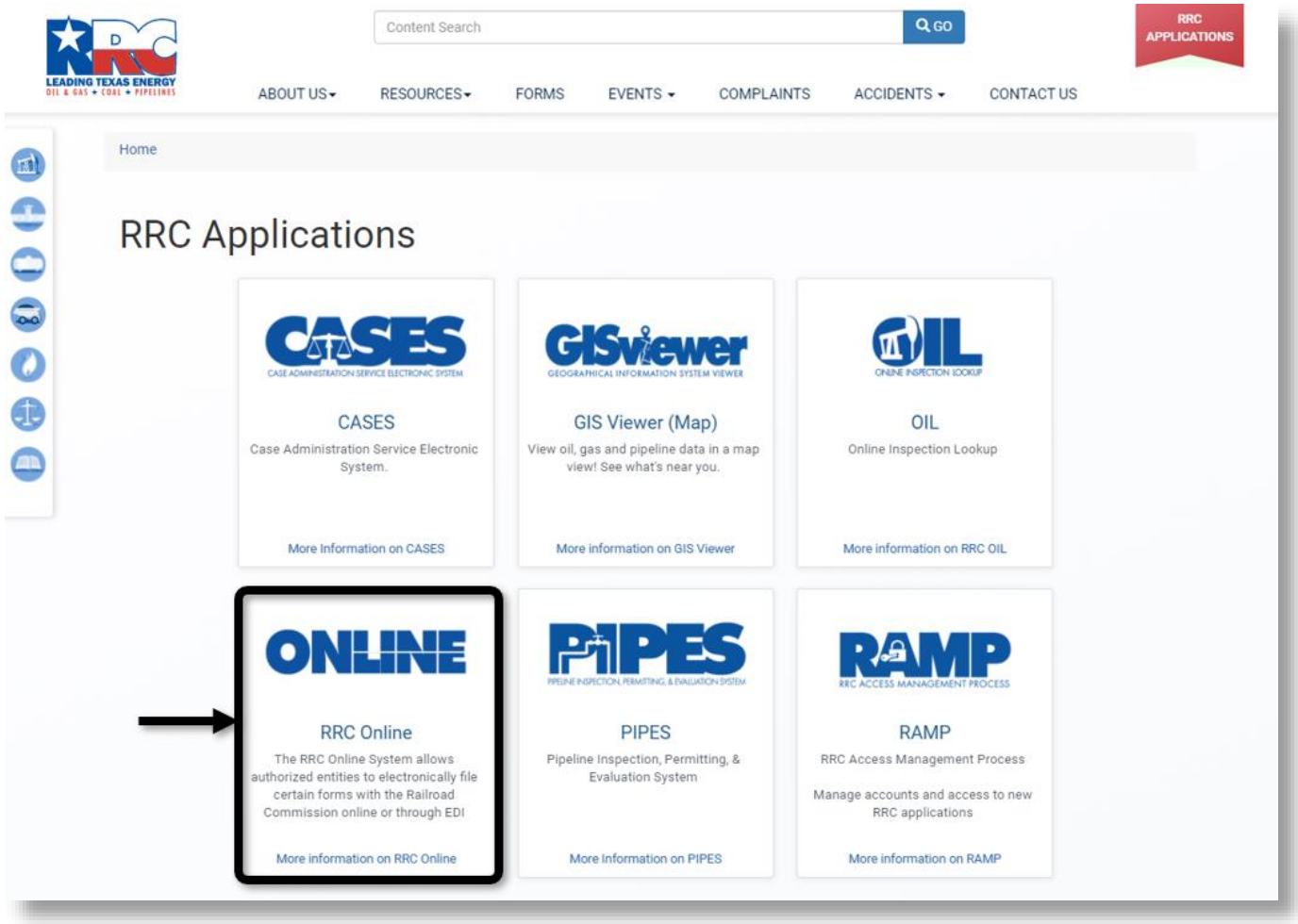
- within **30 days** of any *physical changes* made to wellbore structure
  - Adding new and/or squeezing perforations
  - Adding a liner
  - Adding tubing
  - Setting CIBP with/without cement

Navigating to the RRC Applications

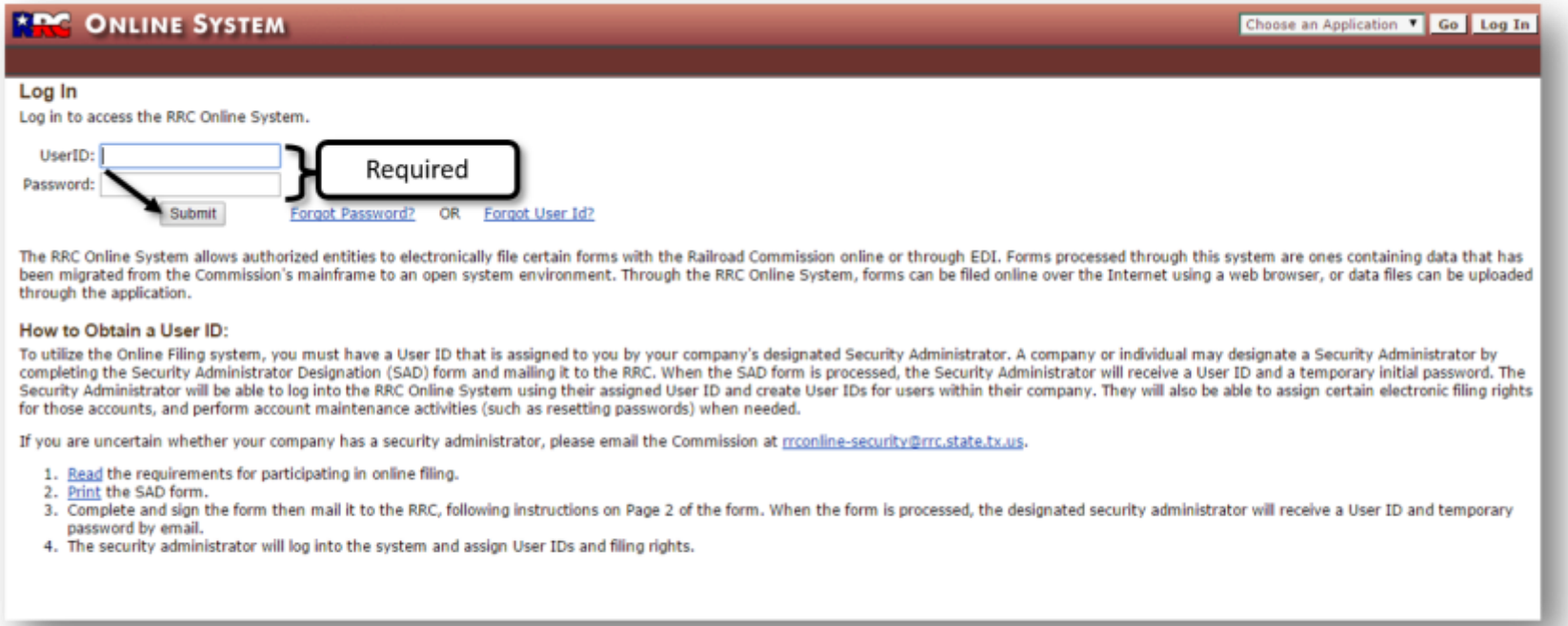
https://www.rrc.texas.gov/



Selecting the Online System

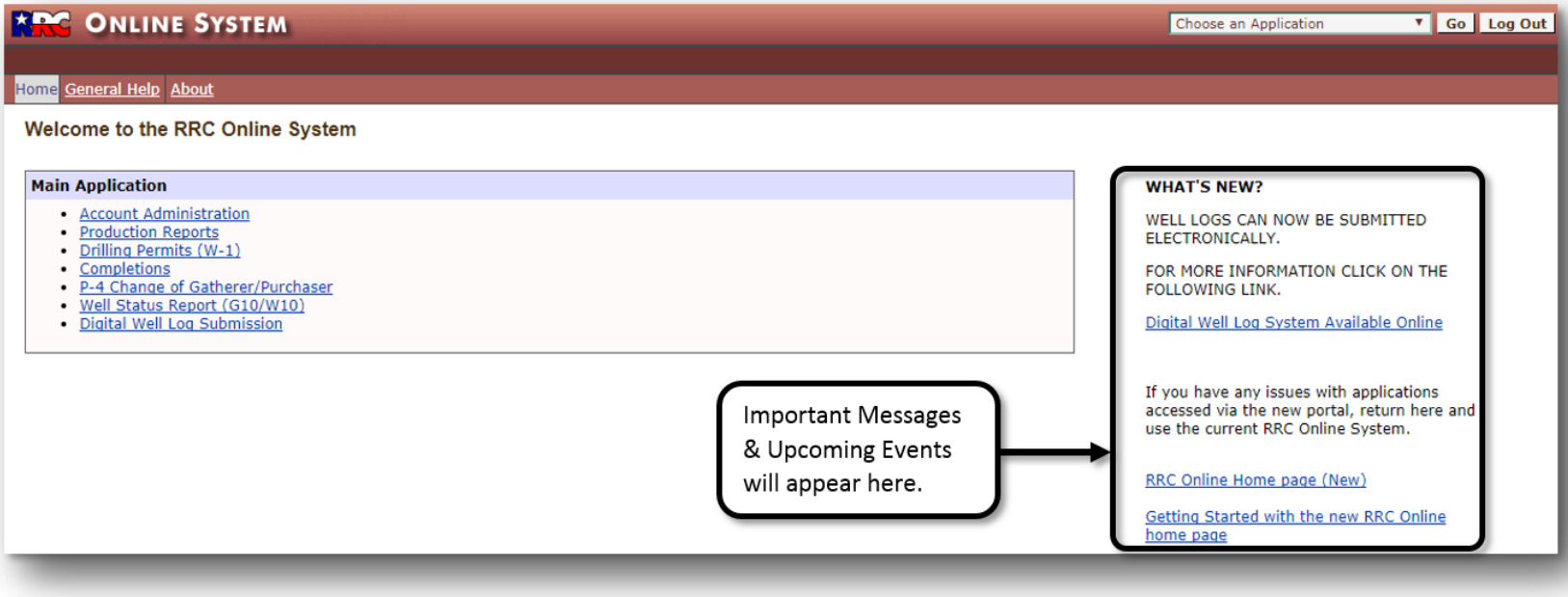


Log In

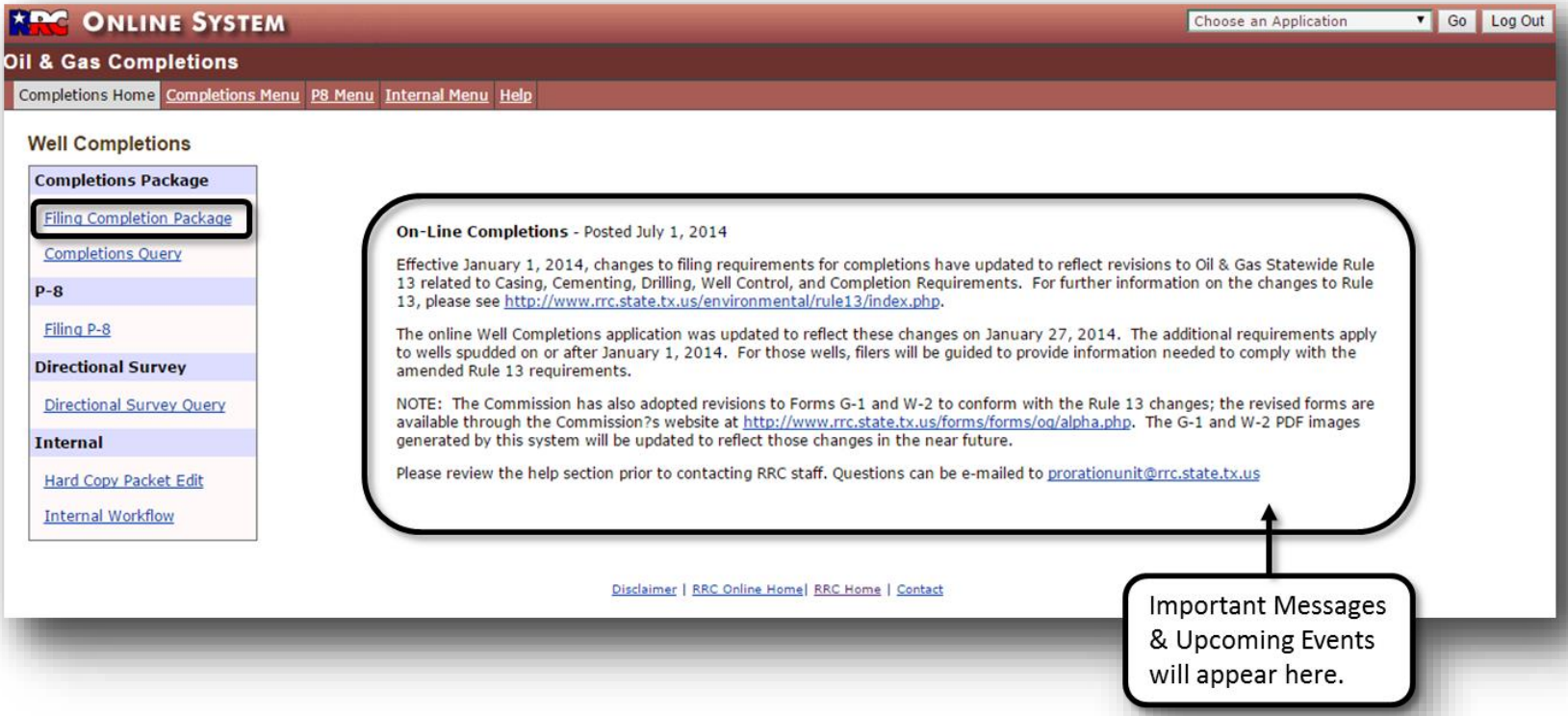


Enter your UserID & Password. If you have forgotten either use the Forgot Password? & Forgot User ID options to have instructions emailed to you.

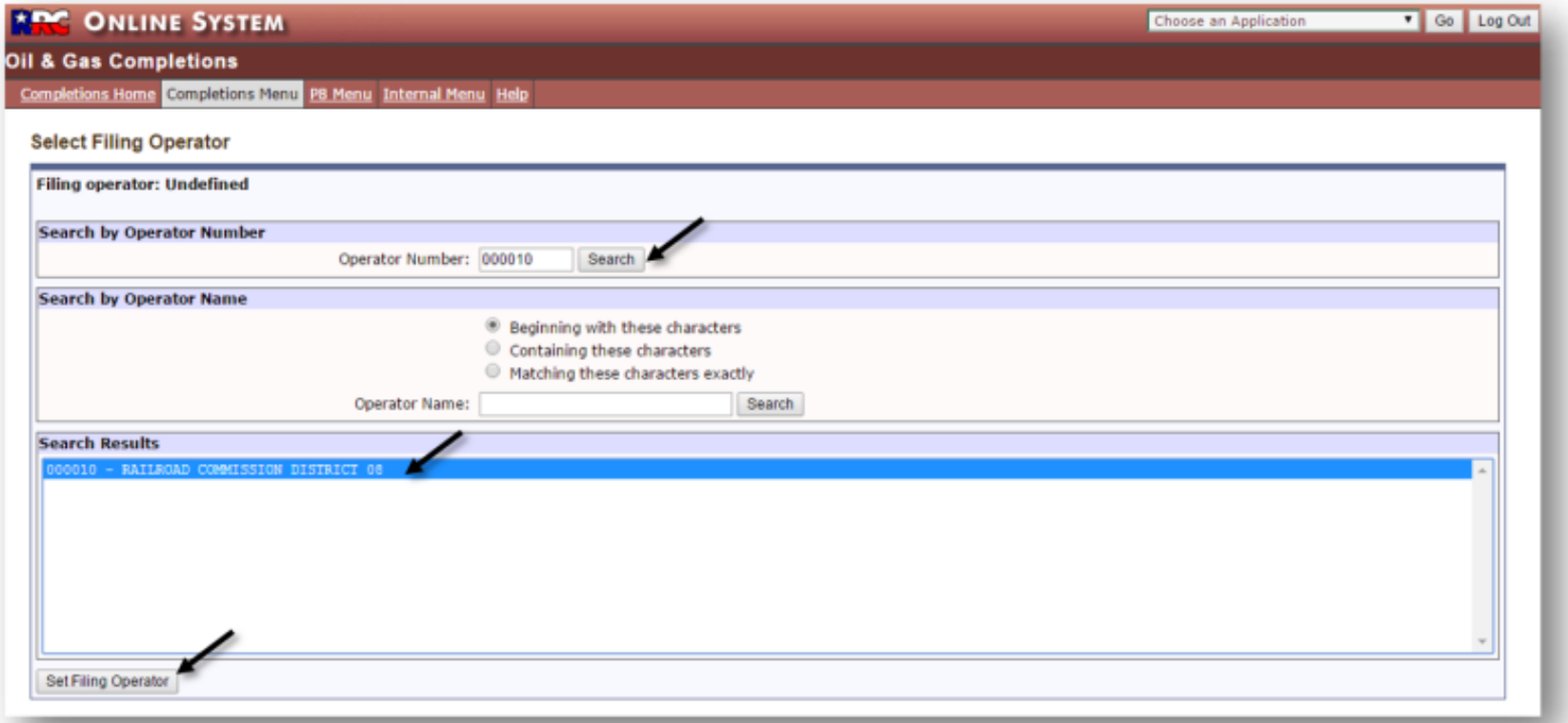
Online Applications



Completion Application

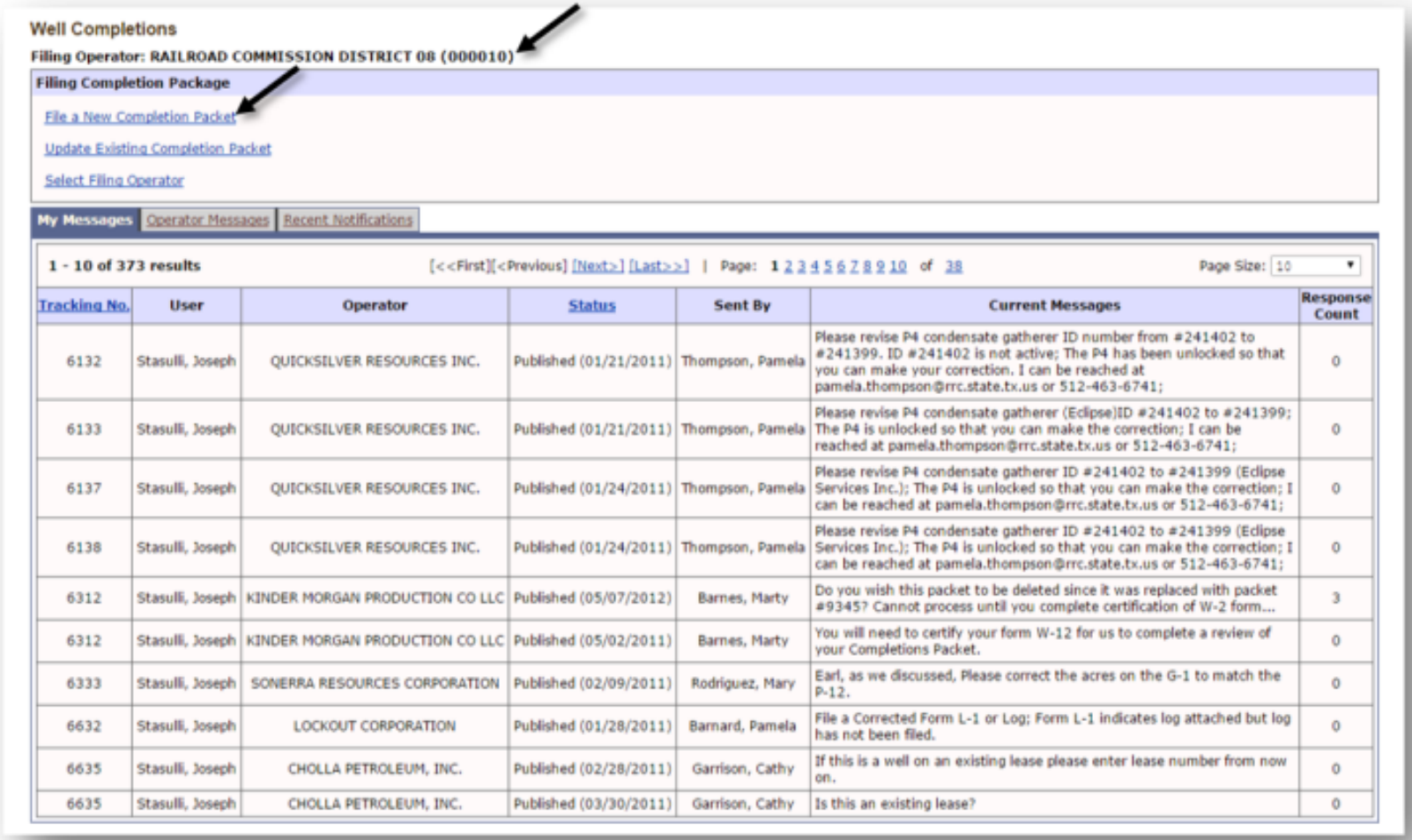


Select Filing Operator



If you are filing as a Consultant/Agent you will need to enter the appropriate Operator information here. If you are filing as an Operator then the online system will automatically select your operator number.

Filing Options



Well Completions

Filing Operator: RAILROAD COMMISSION DISTRICT 08 (000010)

Filing Completion Package

File a New Completion Packet

Update Existing Completion Packet

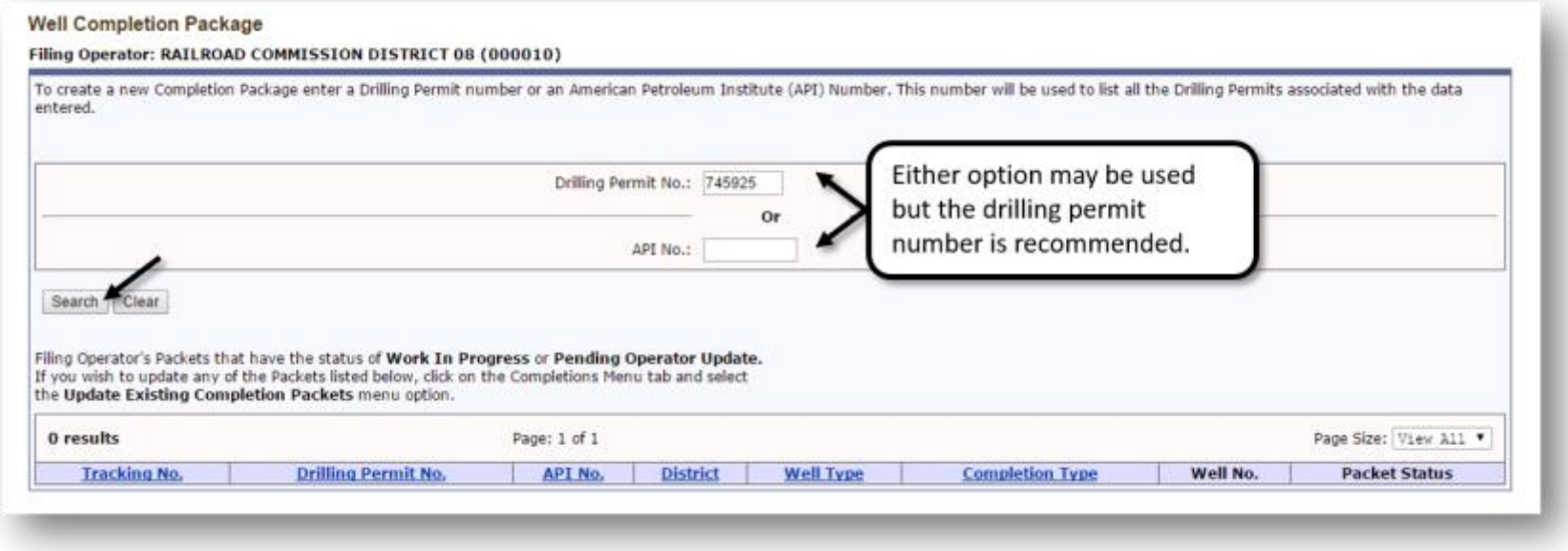
Select Filing Operator

My Messages | Operator Messages | Recent Notifications

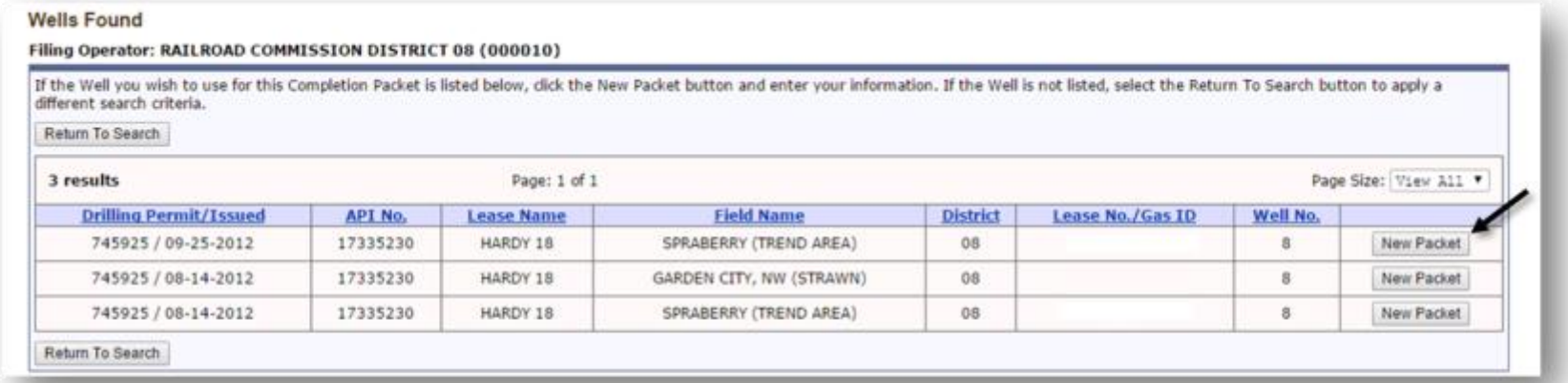
1 - 10 of 373 results [<<First][<Previous] [Next>] [Last>>] | Page: 1 2 3 4 5 6 7 8 9 10 of 38 Page Size: 10

Tracking No.	User	Operator	Status	Sent By	Current Messages	Response Count
6132	Stasulli, Joseph	QUICKSILVER RESOURCES INC.	Published (01/21/2011)	Thompson, Pamela	Please revise P4 condensate gatherer ID number from #241402 to #241399. ID #241402 is not active; The P4 has been unlocked so that you can make your correction. I can be reached at pamela.thompson@rrc.state.tx.us or 512-463-6741;	0
6133	Stasulli, Joseph	QUICKSILVER RESOURCES INC.	Published (01/21/2011)	Thompson, Pamela	Please revise P4 condensate gatherer (Eclipse)ID #241402 to #241399; The P4 is unlocked so that you can make the correction; I can be reached at pamela.thompson@rrc.state.tx.us or 512-463-6741;	0
6137	Stasulli, Joseph	QUICKSILVER RESOURCES INC.	Published (01/24/2011)	Thompson, Pamela	Please revise P4 condensate gatherer ID #241402 to #241399 (Eclipse Services Inc.); The P4 is unlocked so that you can make the correction; I can be reached at pamela.thompson@rrc.state.tx.us or 512-463-6741;	0
6138	Stasulli, Joseph	QUICKSILVER RESOURCES INC.	Published (01/24/2011)	Thompson, Pamela	Please revise P4 condensate gatherer ID #241402 to #241399 (Eclipse Services Inc.); The P4 is unlocked so that you can make the correction; I can be reached at pamela.thompson@rrc.state.tx.us or 512-463-6741;	0
6312	Stasulli, Joseph	KINDER MORGAN PRODUCTION CO LLC	Published (05/07/2012)	Barnes, Marty	Do you wish this packet to be deleted since it was replaced with packet #93457 Cannot process until you complete certification of W-2 form...	3
6312	Stasulli, Joseph	KINDER MORGAN PRODUCTION CO LLC	Published (05/02/2011)	Barnes, Marty	You will need to certify your form W-12 for us to complete a review of your Completions Packet.	0
6333	Stasulli, Joseph	SONERRA RESOURCES CORPORATION	Published (02/09/2011)	Rodriguez, Mary	Earl, as we discussed, Please correct the acres on the G-1 to match the P-12.	0
6632	Stasulli, Joseph	LOCKOUT CORPORATION	Published (01/28/2011)	Barnard, Pamela	File a Corrected Form L-1 or Log; Form L-1 indicates log attached but log has not been filed.	0
6635	Stasulli, Joseph	CHOLLA PETROLEUM, INC.	Published (02/28/2011)	Garrison, Cathy	If this is a well on an existing lease please enter lease number from now on.	0
6635	Stasulli, Joseph	CHOLLA PETROLEUM, INC.	Published (03/30/2011)	Garrison, Cathy	Is this an existing lease?	0

Identify the Well



Select the Field



Wells Found

Filing Operator: RAILROAD COMMISSION DISTRICT 08 (000010)

If the Well you wish to use for this Completion Packet is listed below, click the New Packet button and enter your information. If the Well is not listed, select the Return To Search button to apply a different search criteria.

Return To Search

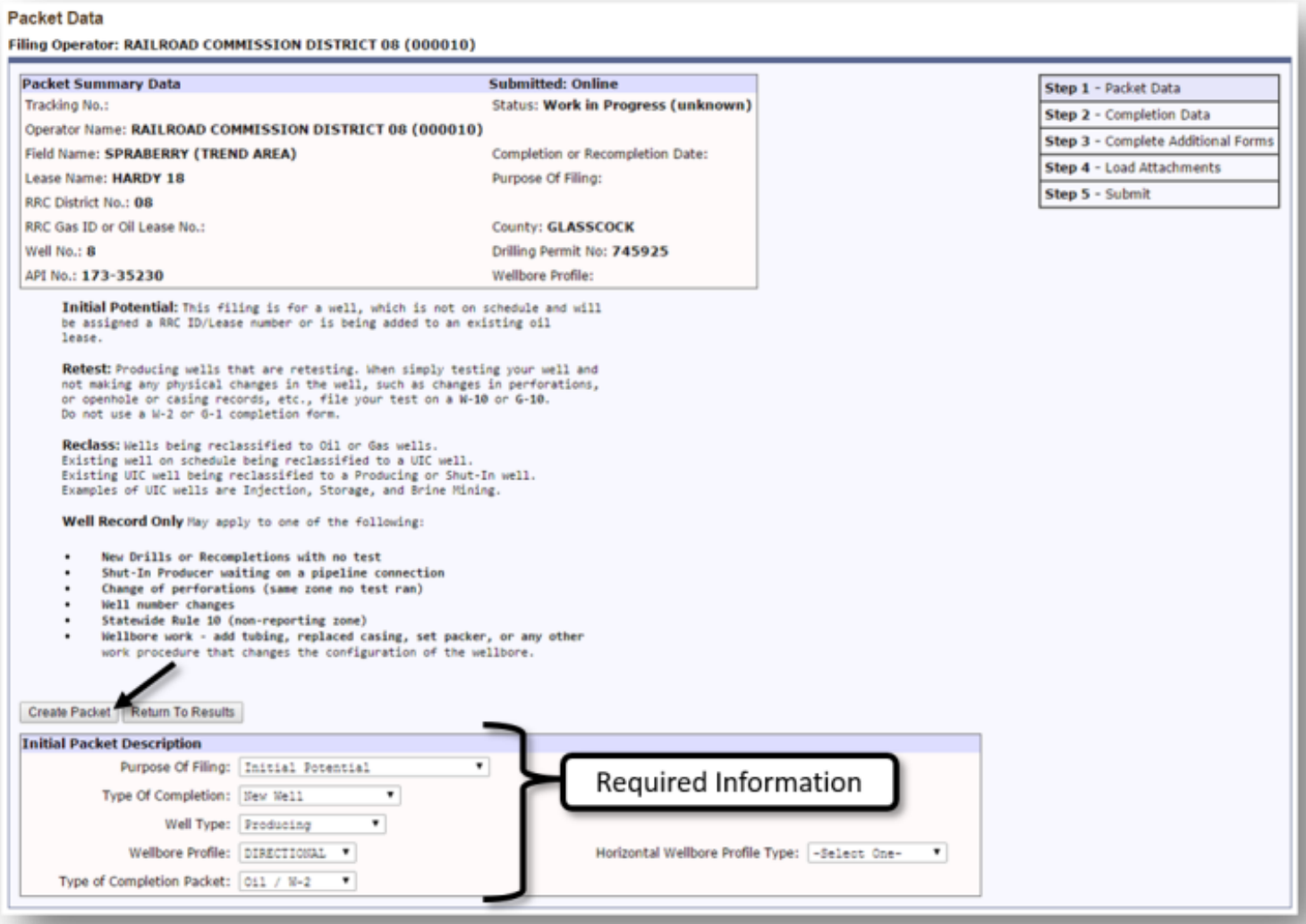
3 results Page: 1 of 1 Page Size: View All

Drilling Permit/Issued	API No.	Lease Name	Field Name	District	Lease No./Gas ID	Well No.	
745925 / 09-25-2012	17335230	HARDY 18	SPRABERRY (TREND AREA)	08		8	New Packet
745925 / 08-14-2012	17335230	HARDY 18	GARDEN CITY, NW (STRAWN)	08		8	New Packet
745925 / 08-14-2012	17335230	HARDY 18	SPRABERRY (TREND AREA)	08		8	New Packet

Return To Search

Select the field the well was completed in. If the well is downhole commingled you need to select the primary reporting field specified on your approved SWR-10 letter.

Initial Packet Description



Packet Description Options

Purpose Of Filing
Initial Potential
Retest
Reclass Oil to Gas
Reclass Gas to Oil
Reclass Injection to Producing
Reclass Producing to Injection
Well Record Only

PSA/Allocation Completion Type
PSA Allocation Not Applicable

Type of Completion
New Well
Deepening
Plug Back
Sidetrack
Re-entry
Other/Recompletion

Type of Completion Packet
Gas / G-1
Oil / W-2

Well Type
Producing
Shut-In Producer
Active UIC
Shut-In UIC

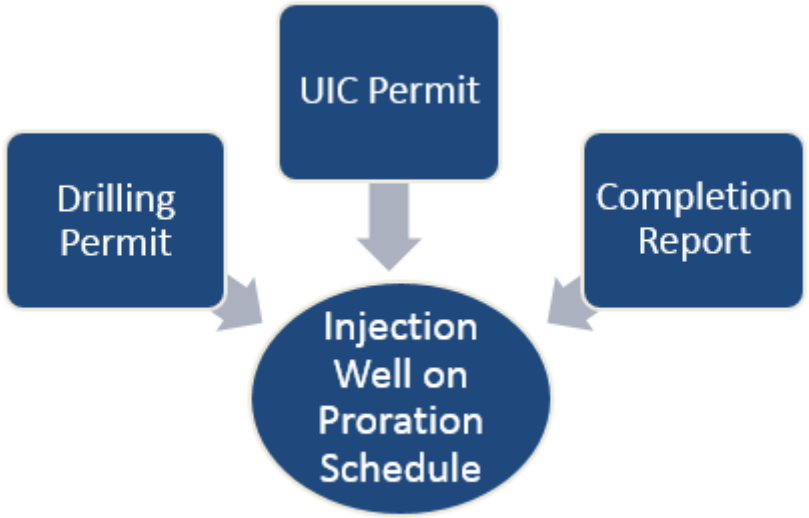
Wellbore Profile
Horizontal
Directional
Vertical
Sidetrack

UIC Forms and Permit Overview

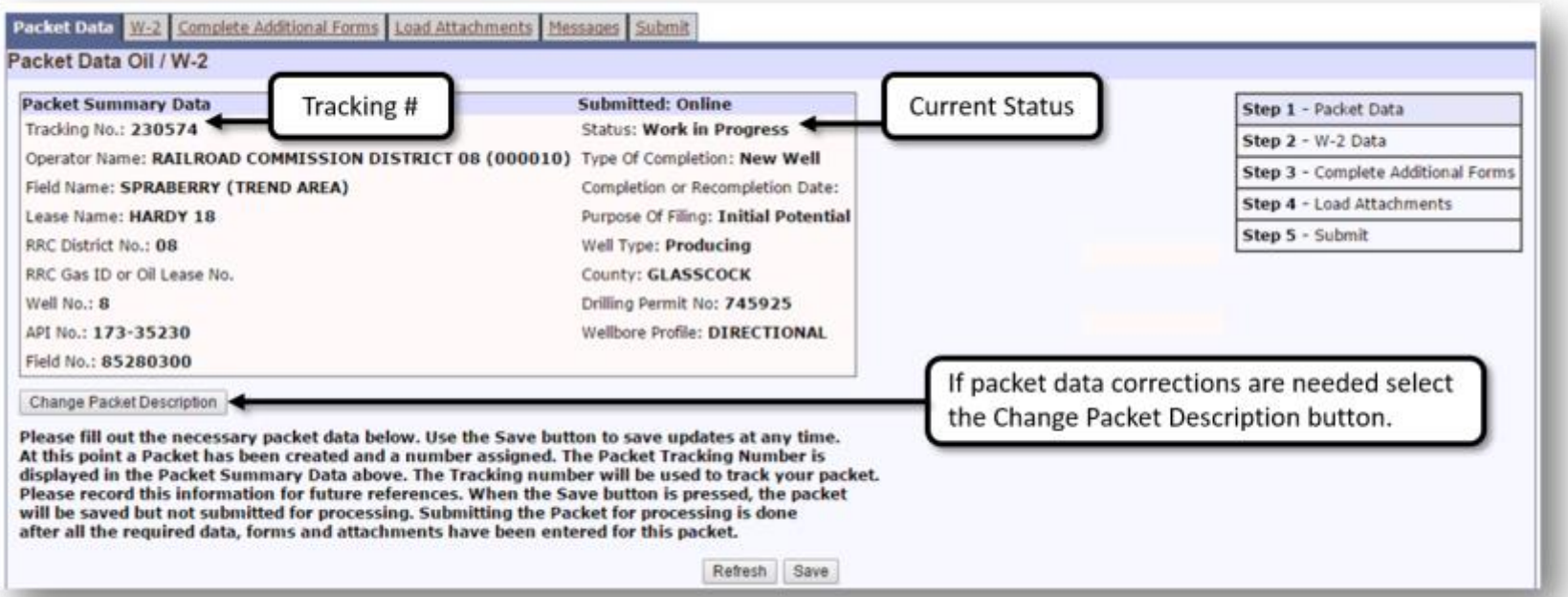
UIC Permit Forms	UIC Proration Schedule Well Type	UIC Permit Conditions
H-1/H-1A Enhanced Recovery Oil and Gas Waste Disposal Hydrocarbon Storage in a Reservoir	Injection	Injection Interval
W-14 Oil and Gas Waste Disposal	Shut-In (Oil Lease)	Tubing / Packer Depth Packer Exception Packer Depth Exception
H-2 Brine Mining	Temporarily Abandoned (Gas ID)	Casing and Permit Conditions Plugback Cast Iron Bridge Plug (CIBP) Top of Cement Remediation
H-4 Hydrocarbon Storage Salt Cavern	Brine Mining	Other Permit Conditions
	LPG LIQ Storage – Salt Formation	
	Gas Storage – Reservoir Injection	
	Gas Storage – Salt Formation	
	Geothermal	

UIC Well on the Proration Schedule

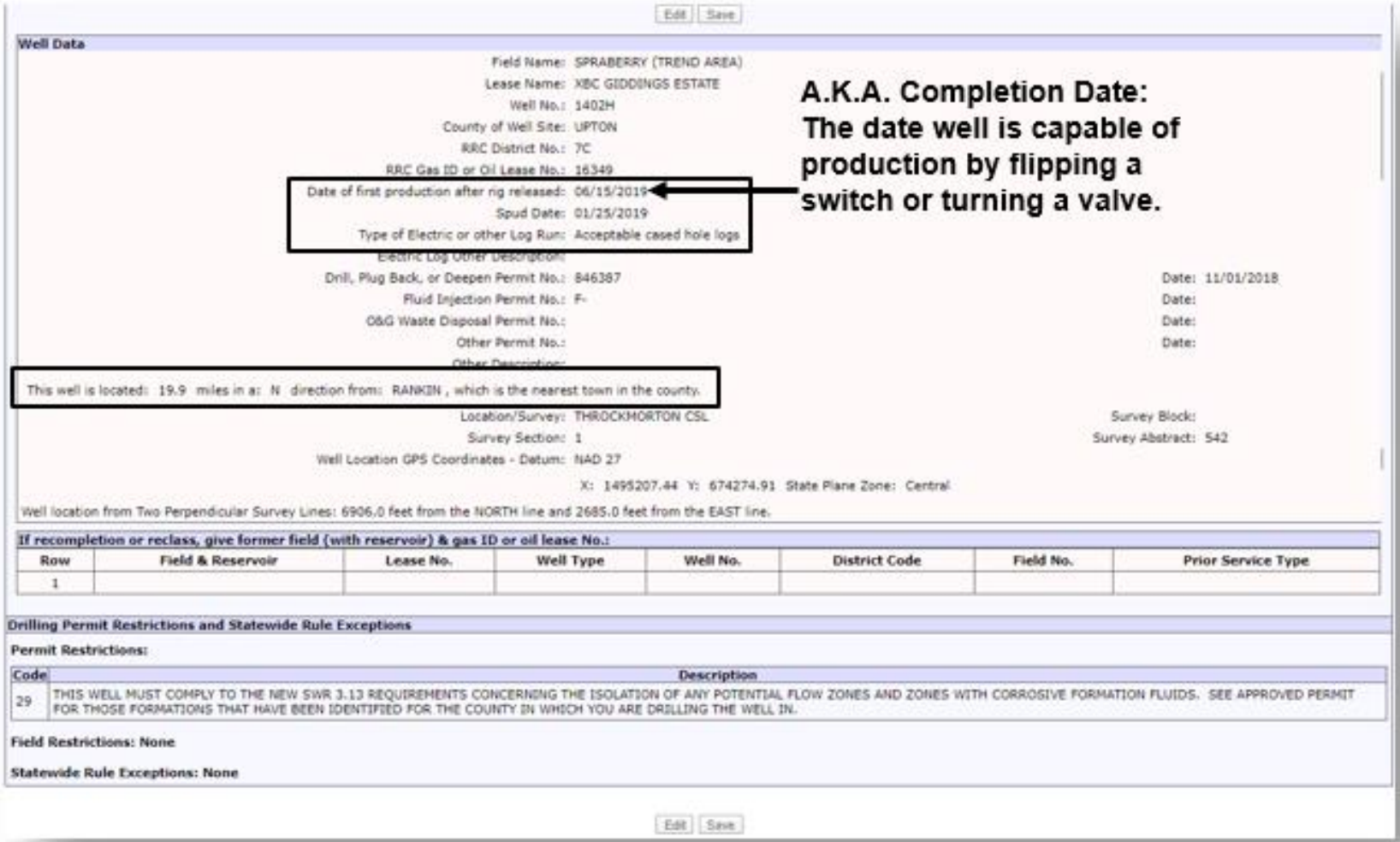
Field Name & Field Number must match on the Drilling Permit, UIC Permit & Completion Report



Verify Packet Data



Well Data & Workover Info.



Edit Save

Well Data

Field Name: SPRABERRY (TREND AREA)
Lease Name: XBC GIDDINGS ESTATE
Well No.: 1402H
County of Well Site: UPTON
RRC District No.: 7C
RRC Gas ID or Oil Lease No.: 16349
Date of first production after rig released: 06/15/2019
Spud Date: 01/25/2019
Type of Electric or other Log Run: Acceptable cased hole logs
Electric Log Other Description:
Drill, Plug Back, or Deepen Permit No.: 846387 Date: 11/01/2018
Fluid Injection Permit No.: F- Date:
O&G Waste Disposal Permit No.: Date:
Other Permit No.: Date:
Other Description:

A.K.A. Completion Date:
The date well is capable of production by flipping a switch or turning a valve.

This well is located: 19.9 miles in a: N direction from: RANKIN , which is the nearest town in the county.

Location/Survey: THROCKMORTON CSL Survey Block:
Survey Section: 1 Survey Abstract: 542
Well Location GPS Coordinates - Datum: NAD 27
X: 1495207.44 Y: 674274.91 State Plane Zone: Central
Well location from Two Perpendicular Survey Lines: 6906.0 feet from the NORTH line and 2685.0 feet from the EAST line.

If recompletion or reclass, give former field (with reservoir) & gas ID or oil lease No.:

Row	Field & Reservoir	Lease No.	Well Type	Well No.	District Code	Field No.	Prior Service Type
1							

Drilling Permit Restrictions and Statewide Rule Exceptions

Permit Restrictions:

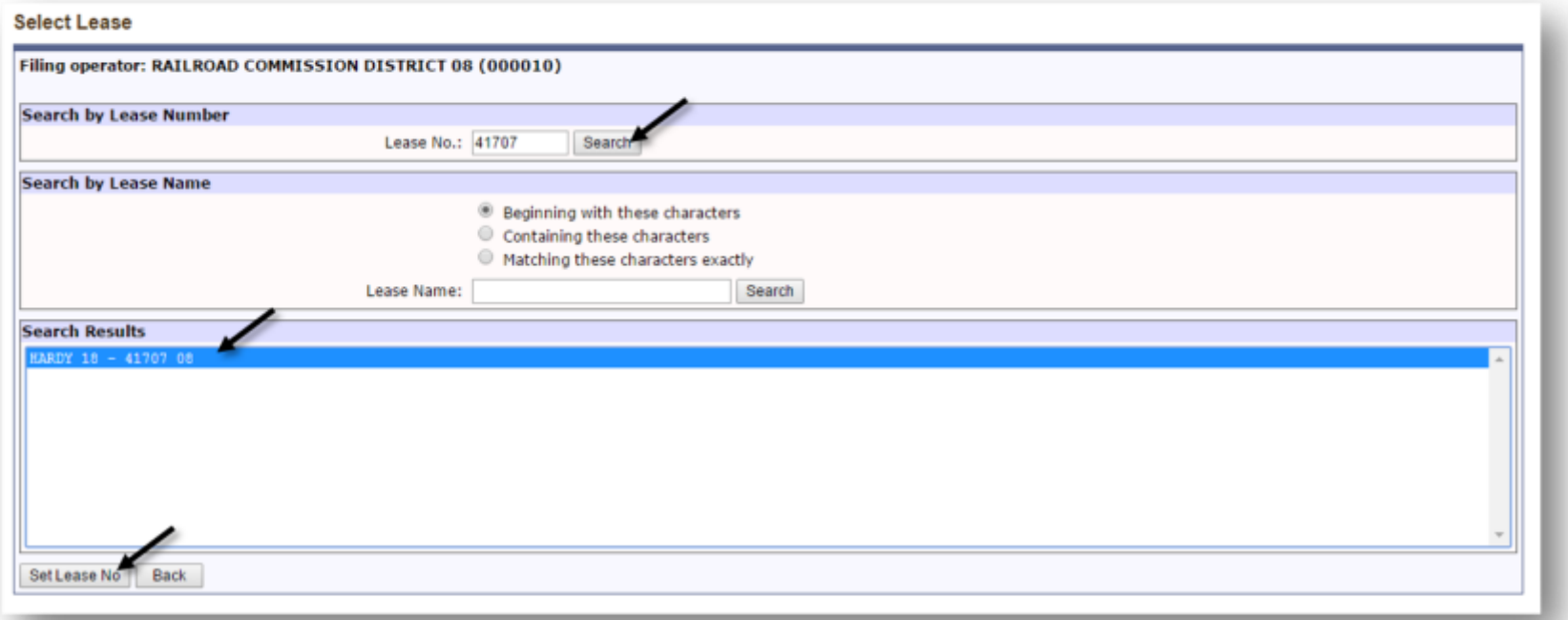
Code	Description
29	THIS WELL MUST COMPLY TO THE NEW SWR 3.13 REQUIREMENTS CONCERNING THE ISOLATION OF ANY POTENTIAL FLOW ZONES AND ZONES WITH CORROSIVE FORMATION FLUIDS. SEE APPROVED PERMIT FOR THOSE FORMATIONS THAT HAVE BEEN IDENTIFIED FOR THE COUNTY IN WHICH YOU ARE DRILLING THE WELL IN.

Field Restrictions: None

Statewide Rule Exceptions: None

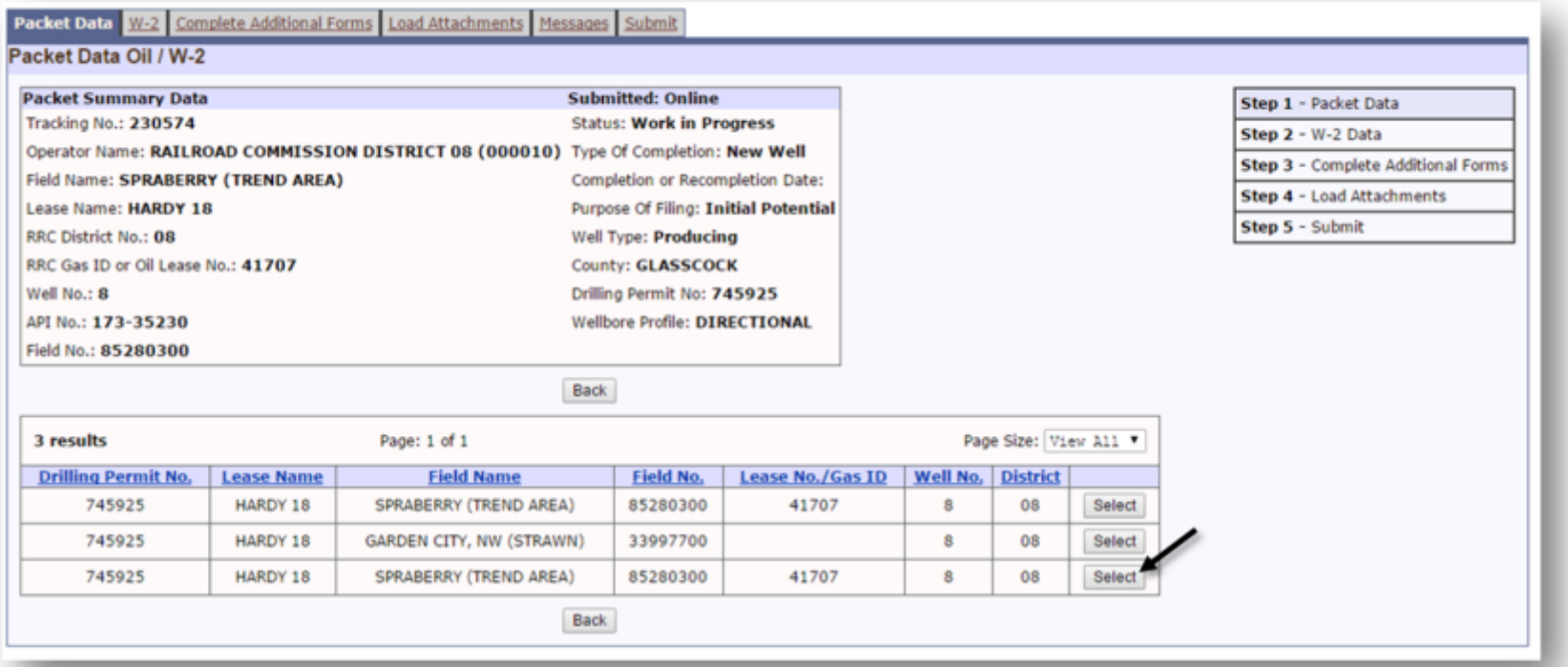
Edit Save

Setting the Lease Number



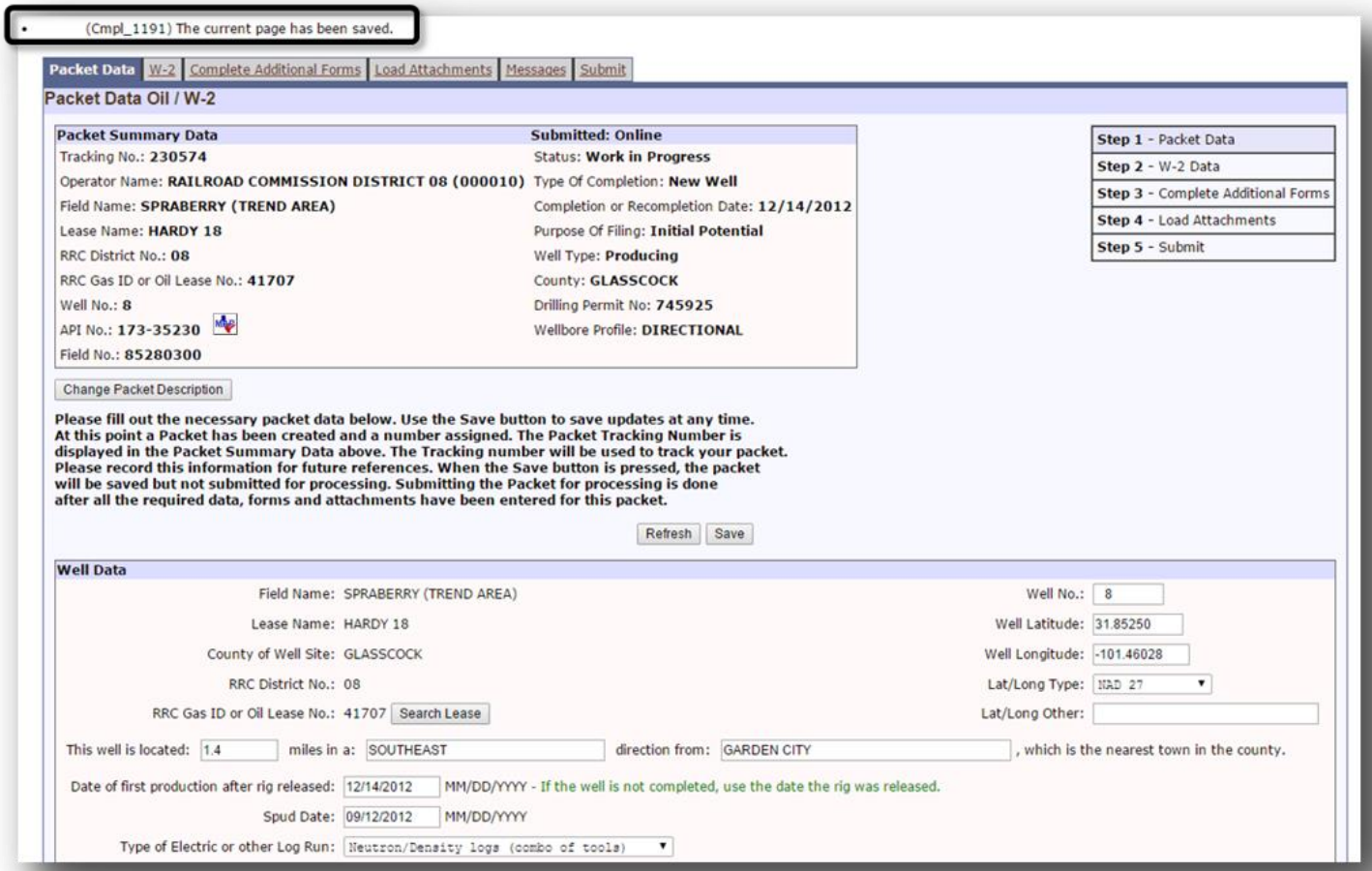
If this well is going onto an existing lease then you should be adding the lease number to the packet data at this time.

Search for Field & Reservoir

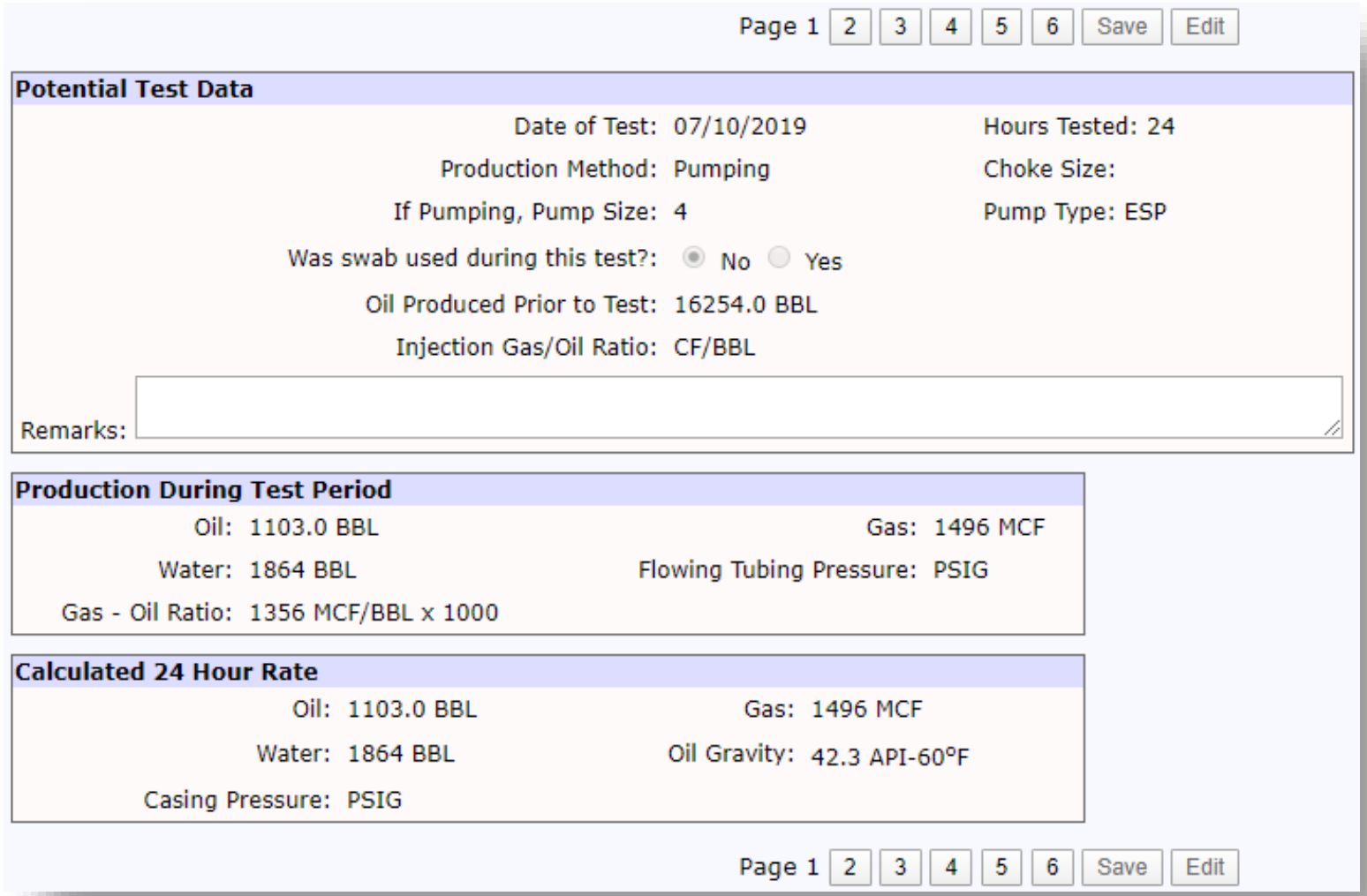


Always use the Search for Field & Reservoir button instead of manually keying the workover information. This will automatically fill in the workover information with the correct field number, well number etc.

Packet Data Successfully Saved



W-2 Page 1 (Potential Test Data)



Page 1 | 2 | 3 | 4 | 5 | 6 | Save | Edit

Potential Test Data

Date of Test:	07/10/2019	Hours Tested:	24
Production Method:	Pumping	Choke Size:	
If Pumping, Pump Size:	4	Pump Type:	ESP
Was swab used during this test?:	◉ No ○ Yes		
Oil Produced Prior to Test:	16254.0 BBL		
Injection Gas/Oil Ratio:	CF/BBL		

Remarks:

Production During Test Period

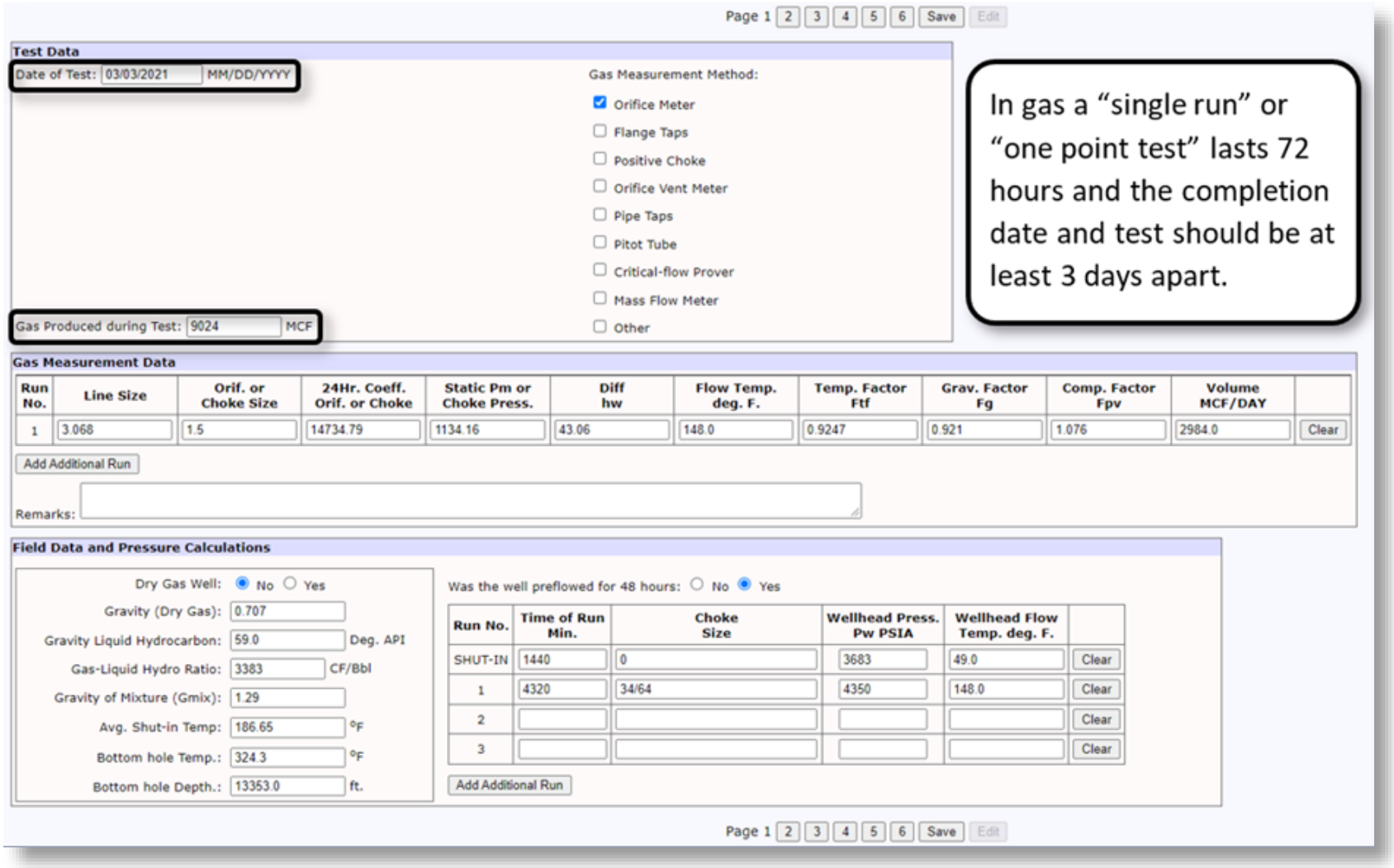
Oil:	1103.0 BBL	Gas:	1496 MCF
Water:	1864 BBL	Flowing Tubing Pressure:	PSIG
Gas - Oil Ratio:	1356 MCF/BBL x 1000		

Calculated 24 Hour Rate

Oil:	1103.0 BBL	Gas:	1496 MCF
Water:	1864 BBL	Oil Gravity:	42.3 API-60°F
Casing Pressure:	PSIG		

Page 1 | 2 | 3 | 4 | 5 | 6 | Save | Edit

Form G-1 Page 1 (Test Data)



Page 1 2 3 4 5 6 Save Edit

Test Data

Date of Test: 03/03/2021 MM/DD/YYYY

Gas Measurement Method:

- [x] Orifice Meter
- [ ] Flange Taps
- [ ] Positive Choke
- [ ] Orifice Vent Meter
- [ ] Pipe Taps
- [ ] Pitot Tube
- [ ] Critical-flow Prover
- [ ] Mass Flow Meter
- [ ] Other

Gas Produced during Test: 9024 MCF

In gas a "single run" or "one point test" lasts 72 hours and the completion date and test should be at least 3 days apart.

Gas Measurement Data

Run No.	Line Size	Orif. or Choke Size	24Hr. Coeff. Orif. or Choke	Static Pm or Choke Press.	Diff hw	Flow Temp. deg. F.	Temp. Factor Ftf	Grav. Factor Fg	Comp. Factor Fpv	Volume MCF/DAY	
1	3.068	1.5	14734.79	1134.16	43.06	148.0	0.9247	0.921	1.076	2984.0	Clear

Add Additional Run

Remarks:

Field Data and Pressure Calculations

Dry Gas Well: No Yes

Gravity (Dry Gas): 0.707

Gravity Liquid Hydrocarbon: 59.0 Deg. API

Gas-Liquid Hydro Ratio: 3383 CF/Bbl

Gravity of Mixture (Gmix): 1.29

Avg. Shut-in Temp: 186.65 °F

Bottom hole Temp.: 324.3 °F

Bottom hole Depth.: 13353.0 ft.

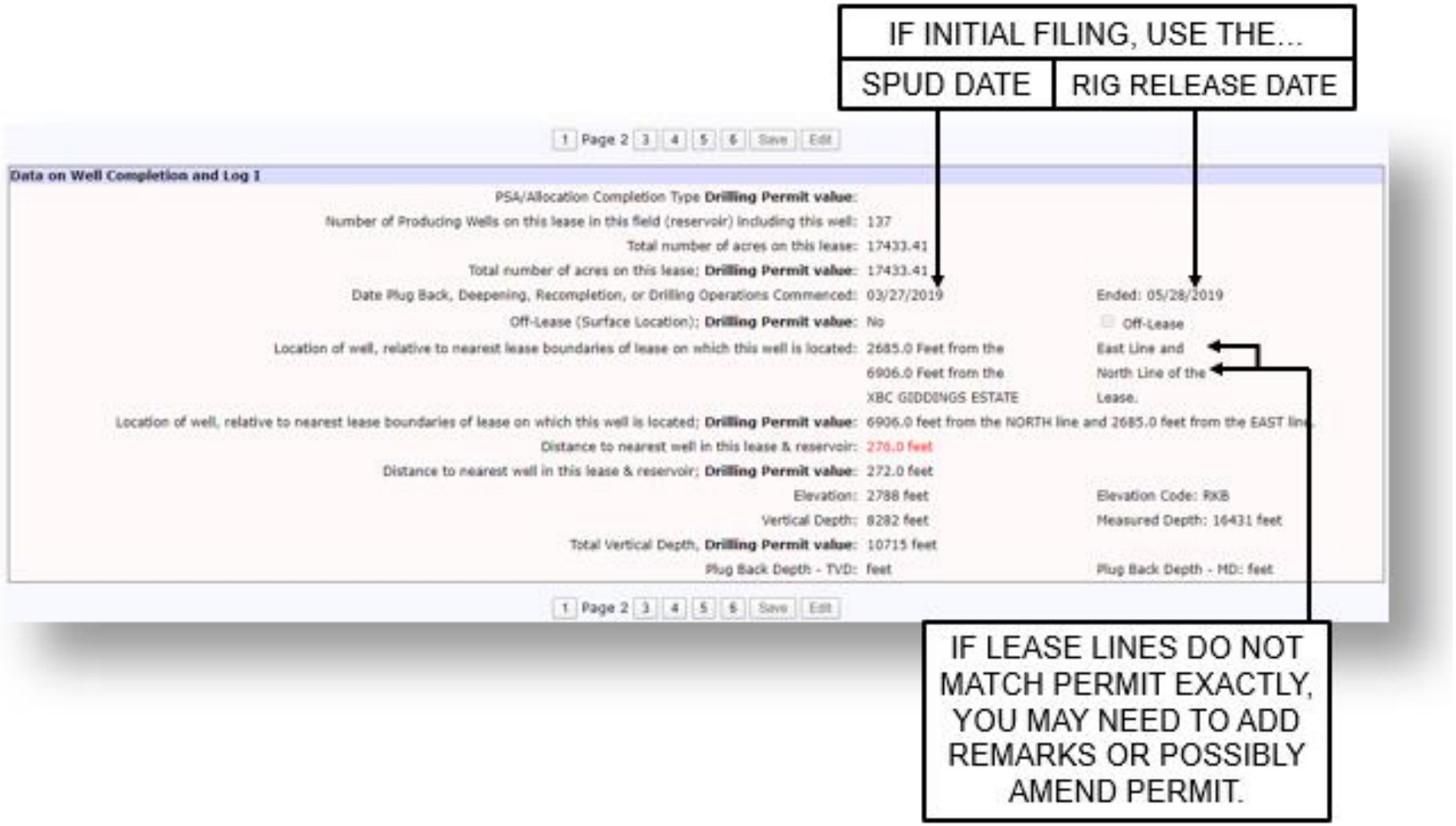
Was the well preflowed for 48 hours: No Yes

Run No.	Time of Run Min.	Choke Size	Wellhead Press. Pw PSIA	Wellhead Flow Temp. deg. F.	
SHUT-IN	1440	0	3683	49.0	Clear
1	4320	34/64	4350	148.0	Clear
2					Clear
3					Clear

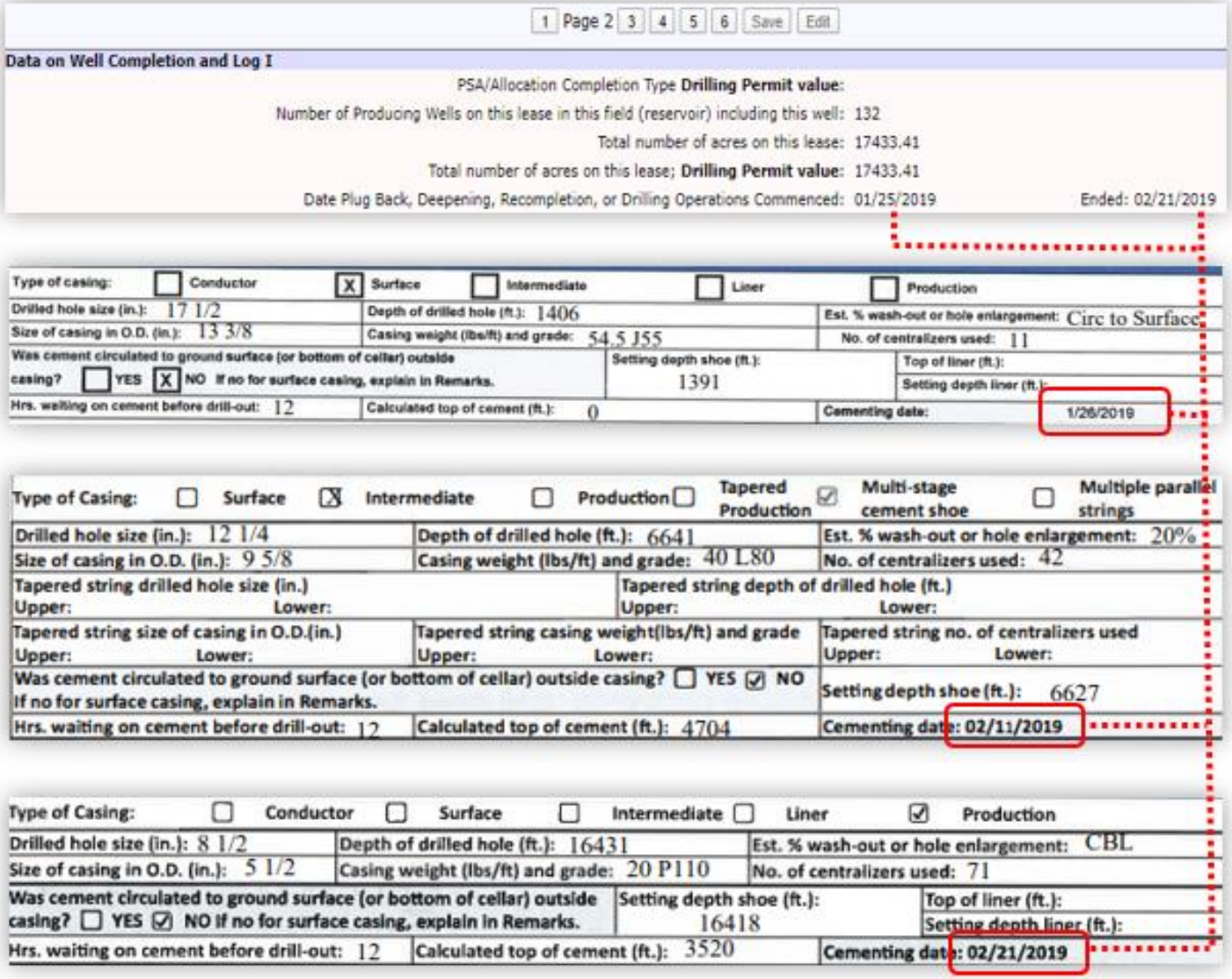
Add Additional Run

Page 1 2 3 4 5 6 Save Edit

Page 2 (Completion Data I)



Page 2 (Drilling Operations)



1 Page 2 3 4 5 6 Save Edit

Data on Well Completion and Log I

PSA/Allocation Completion Type **Drilling Permit value:**

Number of Producing Wells on this lease in this field (reservoir) including this well: 132

Total number of acres on this lease: 17433.41

Total number of acres on this lease; **Drilling Permit value:** 17433.41

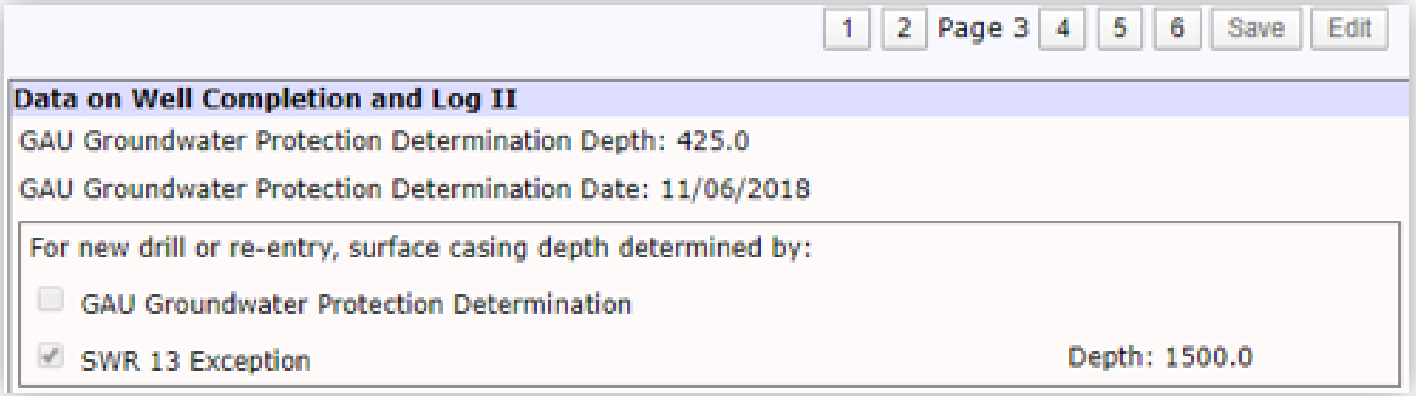
Date Plug Back, Deepening, Recompletion, or Drilling Operations Commenced: 01/25/2019 Ended: 02/21/2019

Type of casing: ☐ Conductor ☒ Surface ☐ Intermediate ☐ Liner ☐ Production		
Drilled hole size (in.): 17 1/2	Depth of drilled hole (ft.): 1406	Est. % wash-out or hole enlargement: Circ to Surface
Size of casing in O.D. (in.): 13 3/8	Casing weight (lbs/ft) and grade: 54.5 J55	No. of centralizers used: 11
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☒ NO If no for surface casing, explain in Remarks.	Setting depth shoe (ft.): 1391	Top of liner (ft.): / Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: 12	Calculated top of cement (ft.): 0	Cementing date: 1/26/2019

Type of Casing: ☐ Surface ☒ Intermediate ☐ Production ☐ Tapered Production ☑ Multi-stage cement shoe ☐ Multiple parallel strings		
Drilled hole size (in.): 12 1/4	Depth of drilled hole (ft.): 6641	Est. % wash-out or hole enlargement: 20%
Size of casing in O.D. (in.): 9 5/8	Casing weight (lbs/ft) and grade: 40 L80	No. of centralizers used: 42
Tapered string drilled hole size (in.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D.(in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☑ NO If no for surface casing, explain in Remarks.		Setting depth shoe (ft.): 6627
Hrs. waiting on cement before drill-out: 12	Calculated top of cement (ft.): 4704	Cementing date: 02/11/2019

Type of Casing: ☐ Conductor ☐ Surface ☐ Intermediate ☐ Liner ☑ Production		
Drilled hole size (in.): 8 1/2	Depth of drilled hole (ft.): 16431	Est. % wash-out or hole enlargement: CBL
Size of casing in O.D. (in.): 5 1/2	Casing weight (lbs/ft) and grade: 20 P110	No. of centralizers used: 71
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☑ NO If no for surface casing, explain in Remarks.	Setting depth shoe (ft.): 16418	Top of liner (ft.): / Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: 12	Calculated top of cement (ft.): 3520	Cementing date: 02/21/2019

Page 3 (SWR-13 Excess Surface Casing)



1 | 2 | Page 3 | 4 | 5 | 6 | Save | Edit

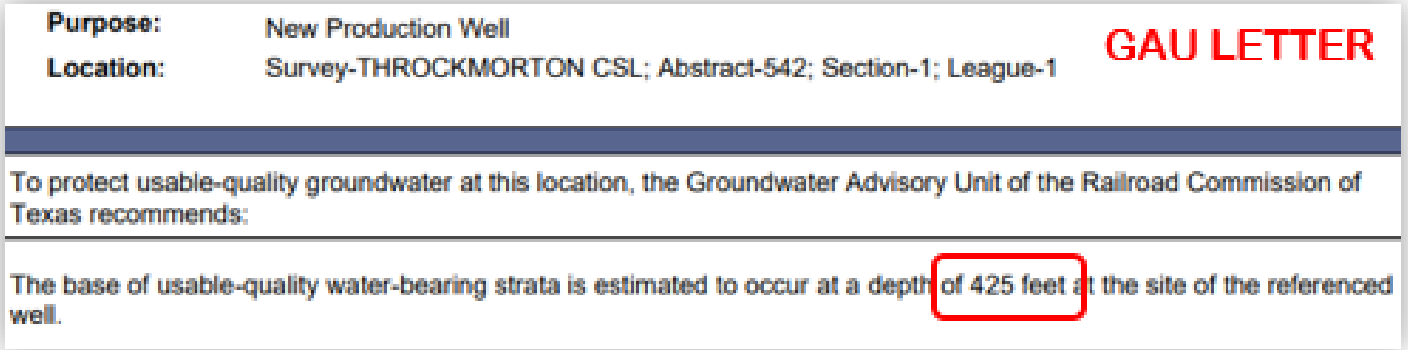
Data on Well Completion and Log II

GAU Groundwater Protection Determination Depth: 425.0

GAU Groundwater Protection Determination Date: 11/06/2018

For new drill or re-entry, surface casing depth determined by:

- ☐ GAU Groundwater Protection Determination
- ☑ SWR 13 Exception — Depth: 1500.0



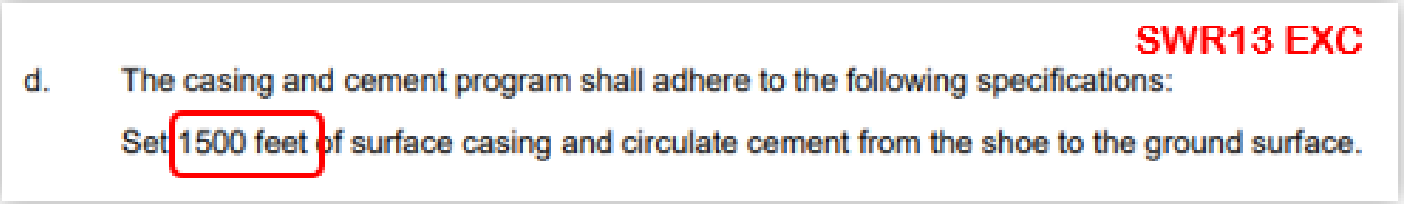
Purpose: New Production Well

Location: Survey-THROCKMORTON CSL; Abstract-542; Section-1; League-1

GAU LETTER

To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Railroad Commission of Texas recommends:

The base of usable-quality water-bearing strata is estimated to occur at a depth of 425 feet at the site of the referenced well.



SWR13 EXC

d. The casing and cement program shall adhere to the following specifications:

Set 1500 feet of surface casing and circulate cement from the shoe to the ground surface.

Page 3 (SWR-13 Exception)

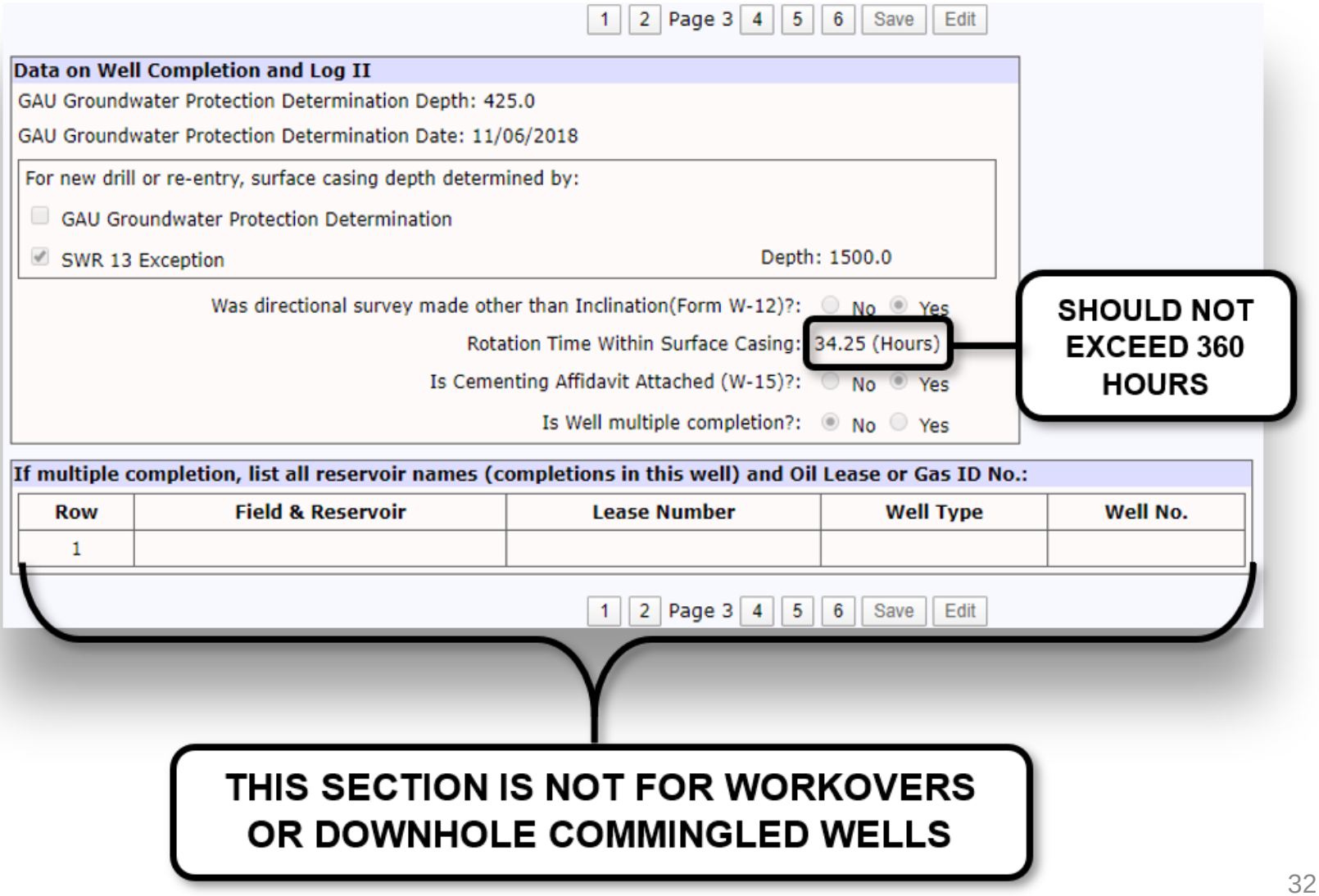
SWR 13 Exception Example: Short Surface Casing

Casing Record

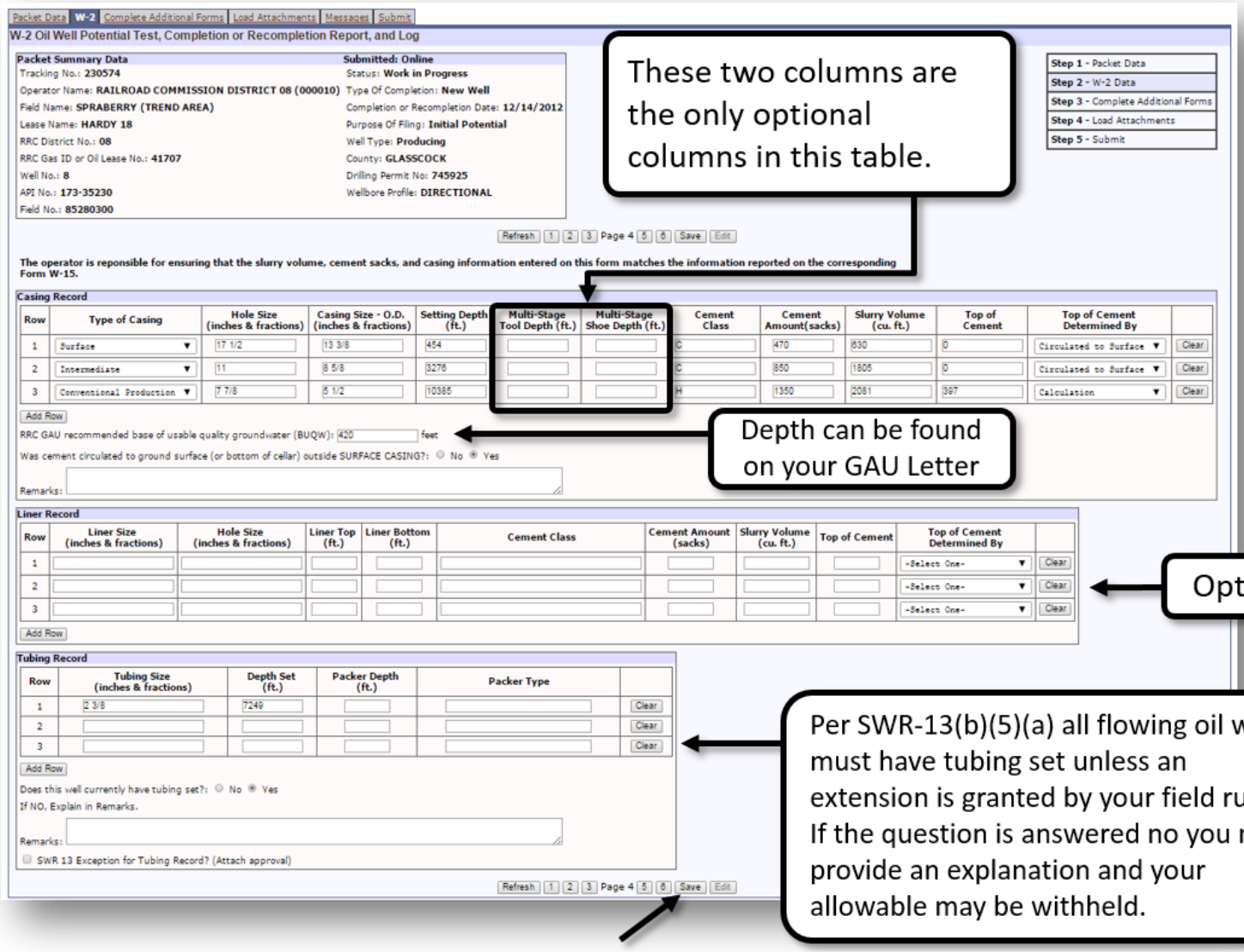
Row	Type of Casing	Hole Size (inches & fractions)	Casing Size - O.D. (inches & fractions)	Setting Depth (ft.)	Multi-Stage Tool Depth (ft.)	Multi-Stage Shoe Depth (ft.)	Cement Class	Cement Amount(sacks)	Slurry Volume (cu. ft.)	Top of Cement
1	Surface	17 1/2	13 3/8	2513			A	1585	3521.0	0
2	Intermediate	12 1/4	9 5/8	5290			A	1130	2445.0	0
3	Conventional Production	8 1/2	5 1/2	15780			H	2475	4227.0	0

The base of usable-quality water is estimated to occur at a depth of 5150 feet. Moreover, the interval from the land surface to a depth of 150 feet and the zone from a depth of 1300 feet to 2400 feet contains water of usable-quality which must be protected. Furthermore, the CARRIZO from 2700 feet to 3750 feet contains superior quality water which must be isolated from water in overlying and underlying beds.

Page 3 (Rotation Time)

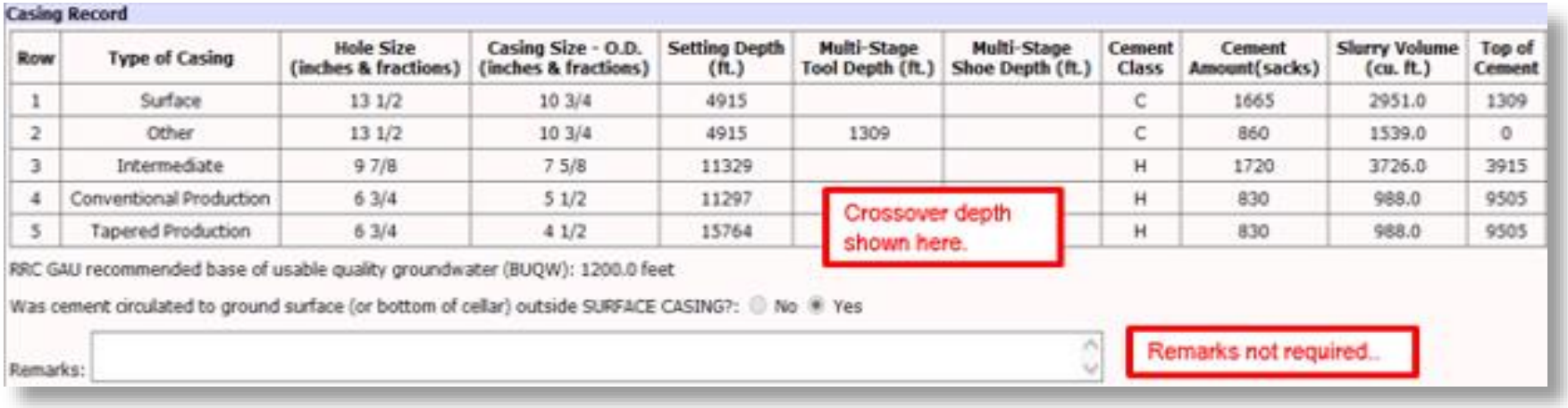


Page 4 (Casing, Liner & Tubing)



Page 4 (Tapered Casing Example 1)

Crossover depth in Casing Record is **preferred**.



Casing Record

Row	Type of Casing	Hole Size (inches & fractions)	Casing Size - O.D. (inches & fractions)	Setting Depth (ft.)	Multi-Stage Tool Depth (ft.)	Multi-Stage Shoe Depth (ft.)	Cement Class	Cement Amount(sacks)	Slurry Volume (cu. ft.)	Top of Cement
1	Surface	13 1/2	10 3/4	4915			C	1665	2951.0	1309
2	Other	13 1/2	10 3/4	4915	1309		C	860	1539.0	0
3	Intermediate	9 7/8	7 5/8	11329			H	1720	3726.0	3915
4	Conventional Production	6 3/4	5 1/2	11297			H	830	988.0	9505
5	Tapered Production	6 3/4	4 1/2	15764			H	830	988.0	9505

Crossover depth shown here.

RRC GAU recommended base of usable quality groundwater (BUQW): 1200.0 feet

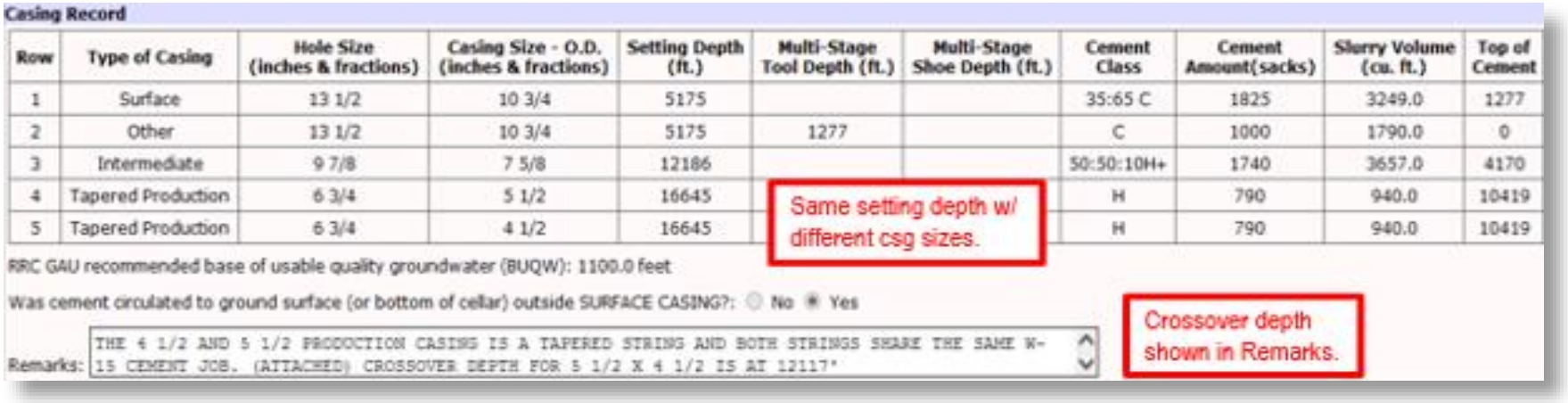
Was cement circulated to ground surface (or bottom of cellar) outside SURFACE CASING?: No Yes

Remarks:

Remarks not required.

Page 4 (Tapered Casing Example 2)

Crossover depth shown in Remarks.



Casing Record

Row	Type of Casing	Hole Size (inches & fractions)	Casing Size - O.D. (inches & fractions)	Setting Depth (ft.)	Multi-Stage Tool Depth (ft.)	Multi-Stage Shoe Depth (ft.)	Cement Class	Cement Amount(sacks)	Slurry Volume (cu. ft.)	Top of Cement
1	Surface	13 1/2	10 3/4	5175			35:65 C	1825	3249.0	1277
2	Other	13 1/2	10 3/4	5175	1277		C	1000	1790.0	0
3	Intermediate	9 7/8	7 5/8	12186			50:50:10H+	1740	3657.0	4170
4	Tapered Production	6 3/4	5 1/2	16645			H	790	940.0	10419
5	Tapered Production	6 3/4	4 1/2	16645			H	790	940.0	10419

Same setting depth w/ different csg sizes.

RRC GAU recommended base of usable quality groundwater (BUQW): 1100.0 feet

Was cement circulated to ground surface (or bottom of cellar) outside SURFACE CASING?: ○ No ◉ Yes

Remarks: THE 4 1/2 AND 5 1/2 PRODUCTION CASING IS A TAPERED STRING AND BOTH STRINGS SHARE THE SAME W-15 CEMENT JOB. (ATTACHED) CROSSOVER DEPTH FOR 5 1/2 X 4 1/2 IS AT 12117'

Crossover depth shown in Remarks.

Page 4 (Tapered Hole Size)

If hole size is tapered, option to show on one line showing largest hole size.

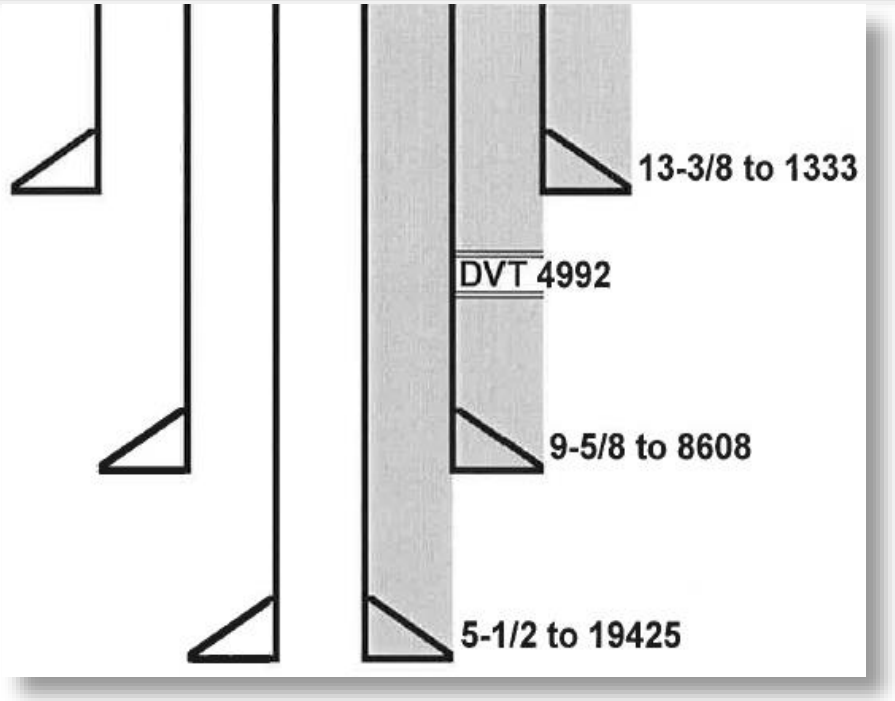
- Tapered Hole size not offered on drop down.
- W-15 must reflect two different hole sizes.
- Remarks should show depth hole size tapered.

Page 4 (Multi-Stage Example)

Order of Casing is **preferred**.

Casing Record

Row	Type of Casing	Hole Size (inches & fractions)	Casing Size - O.D. (inches & fractions)	Setting Depth (ft.)	Multi-Stage Tool Depth (ft.)	Multi-Stage Shoe Depth (ft.)	Cement Class	Cement Amount(sacks)	Slurry Volume (cu. ft.)	Top of Cement
1	Surface	17 1/2	13 3/8	1333			C	1246	2303.0	0
2	Intermediate	12 1/4	9 5/8	8608	4992		TXI & C	1242	3074.7	0
3	Intermediate	12 1/4	9 5/8	8608			TXI & C	856	2053.7	4992
4	Conventional Production	8 1/2	5 1/2	19425			H	2575	3965.5	450



Page 4 (Multi-Stage Cementing)

If DVT did not open, include Tool depth in Casing Record:

- Combine cement sacks, including if perforated & squeezed, into **one line only**.
- Add Remark “DVT did not open”.
- Important to show depth of DVT as it might affect future plugging procedure; 100’ plug will have to be placed across tool.

Page 4 (Liner)

Liner with Cement:

- W-15 will be attached to completion.

Liner Record

Row	Liner Size (inches & fractions)	Hole Size (inches & fractions)	Liner Top (ft.)	Liner Bottom (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement
1	7	8 3/4	10492	10504	H	310	420.67	7832

Liner without Cement:

- Will **not** have W-15 attached to completion.

Liner Record

Row	Liner Size (inches & fractions)	Hole Size (inches & fractions)	Liner Top (ft.)	Liner Bottom (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement
1	3 1/2	6 1/8	3106	7216	N/A- NO CEMENT PUMPED			

Page 4 (Tubing)

Tubing Record

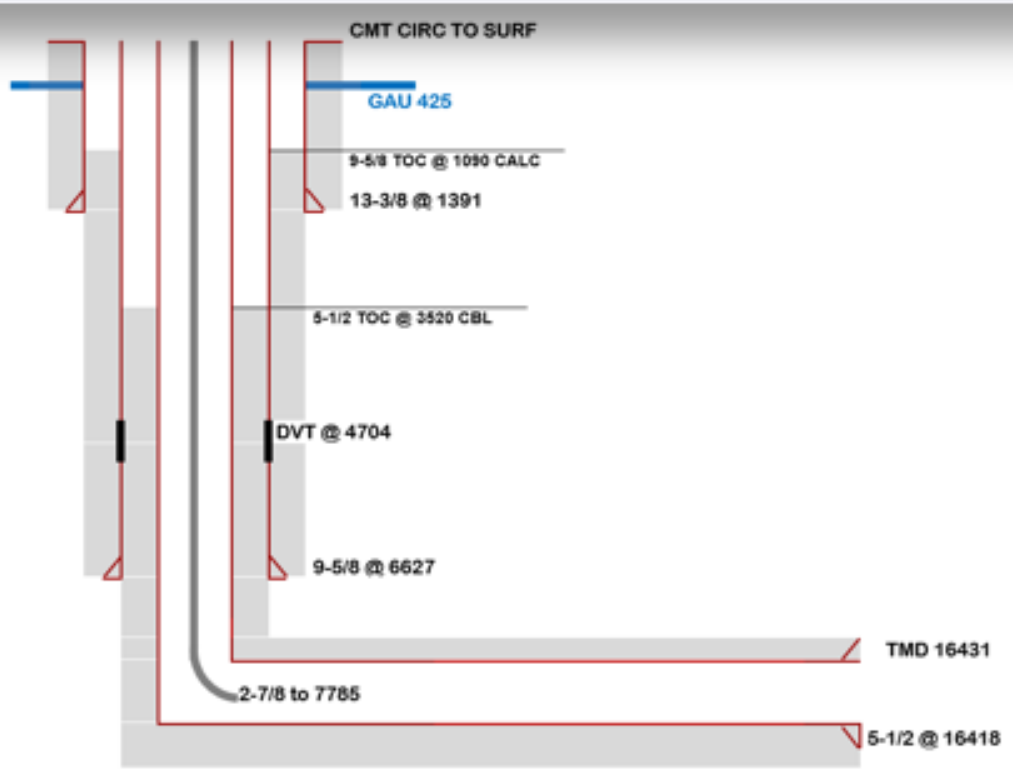
Row	Tubing Size (inches & fractions)	Depth Set (ft.)	Packer Depth (ft.)	Packer Type
1	2 7/8	7785		

Does this well currently have tubing set?: ○ No ◉ Yes

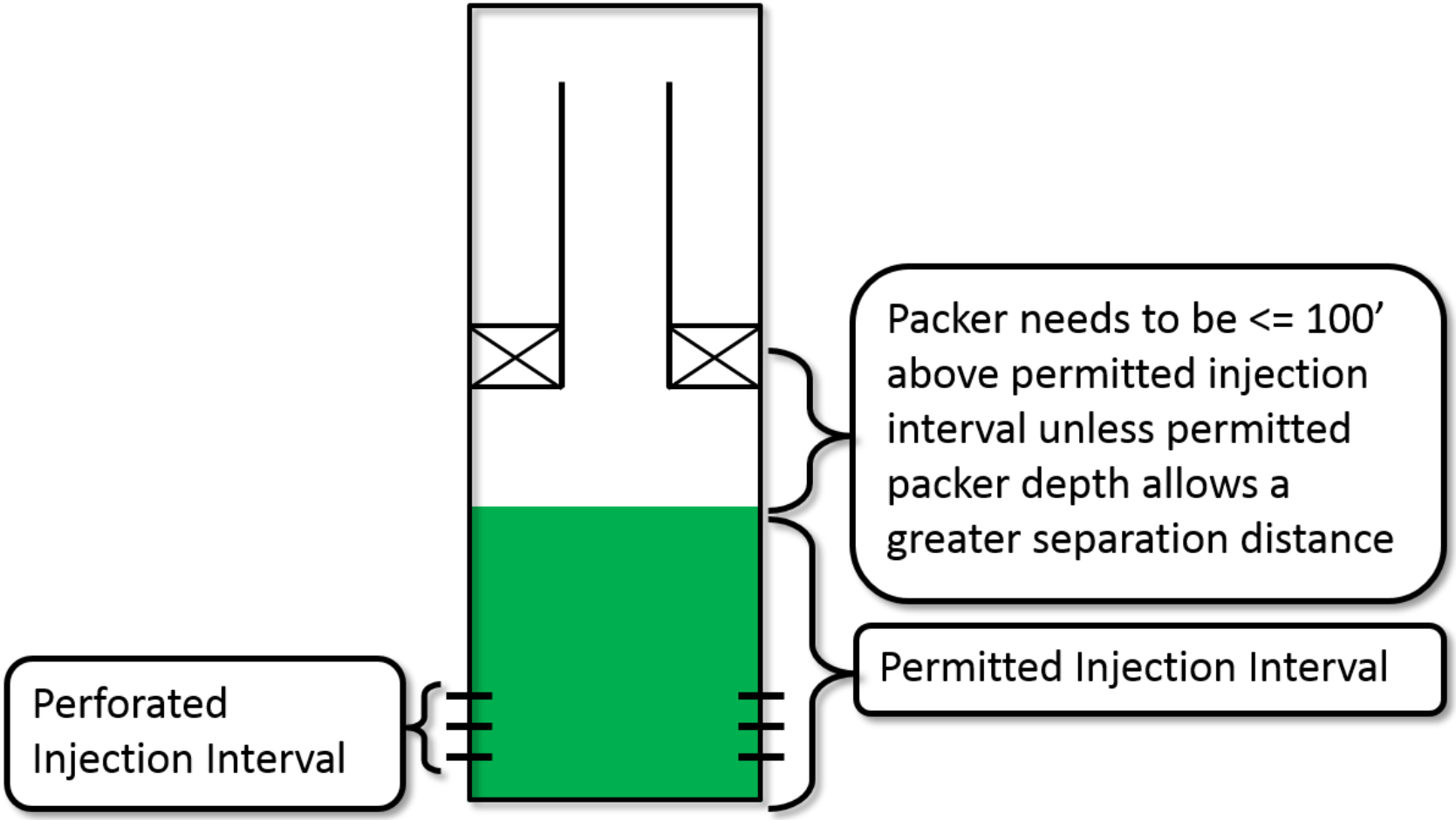
If NO, Explain in Remarks.

Remarks:

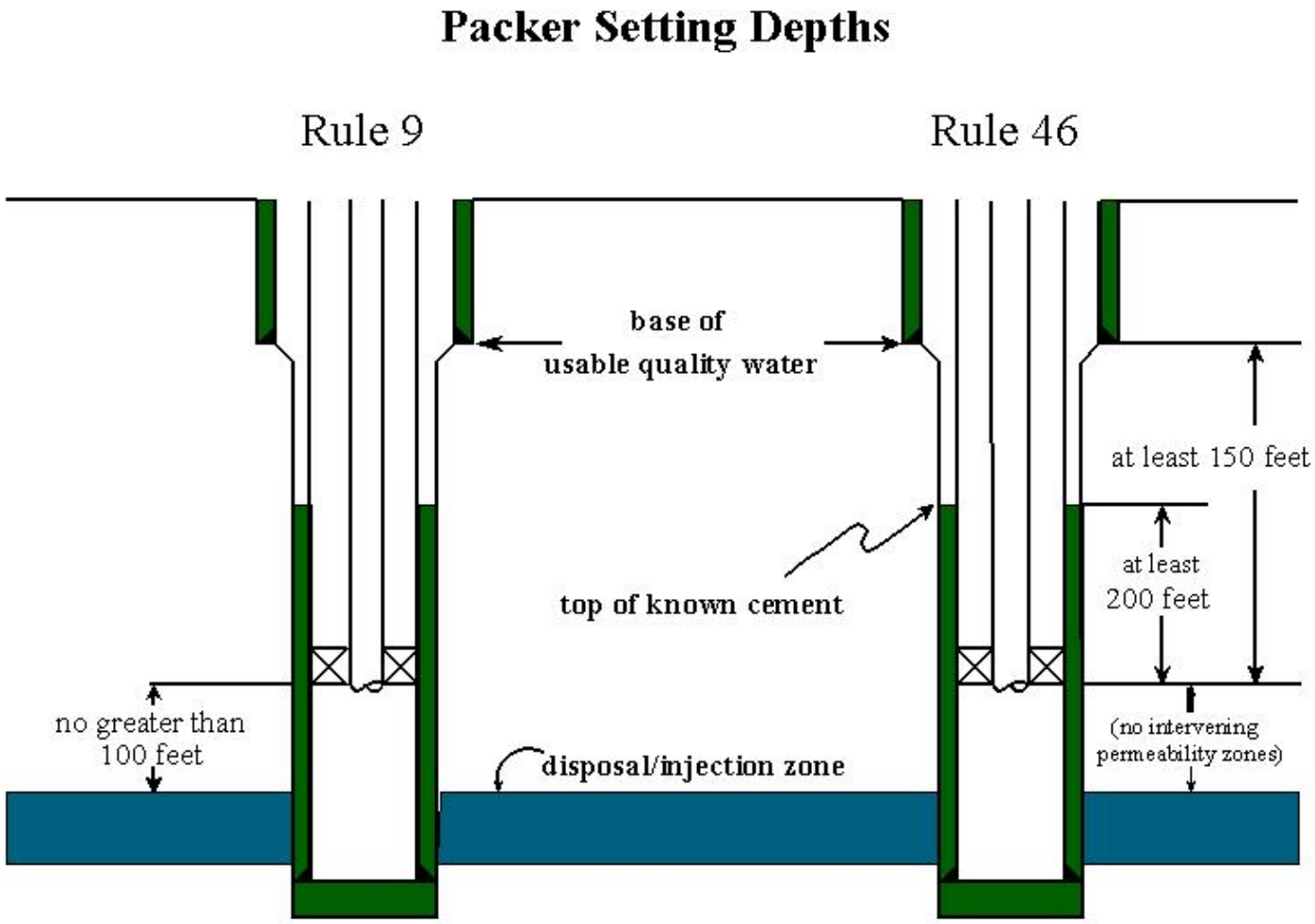
☐ SWR 13 Exception for Tubing Record? (Attach approval)



Page 4 (UIC Packer Depth)



SWR-9 & SWR-46 Packer Setting Depths



Applying the UIC Permit to Page 4-5

CHRISTI CRADDICK, CHAIRMAN
DAVID PORTER, COMMISSIONER
BARRY T. SMITHERMAN, COMMISSIONER

GIL BUJANO, P.E.
DIRECTOR, OIL AND GAS DIVISION

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION
PERMIT TO INJECT FLUID INTO A RESERVOIR PRODUCTIVE OF OIL AND GAS

PROJECT NO. F-14660, COMMERCIAL AMENDMENT

BTA OIL PRODUCERS, LLC
104 S PECOS
MIDLAND, TX 79701

Authority is granted to inject into the well identified herein in accordance with Statewide Rule 46 of the Railroad Commission of Texas and based on the information contained in the application (Forms H-1 and H-1A) dated September 09, 2014 for the permitted interval of the SPRABERRY formation and subject to the following terms and special conditions:

TEXACO (04192) LEASE
SPRABERRY (TREND AREA) FIELD
REAGAN COUNTY, DISTRICT 7C

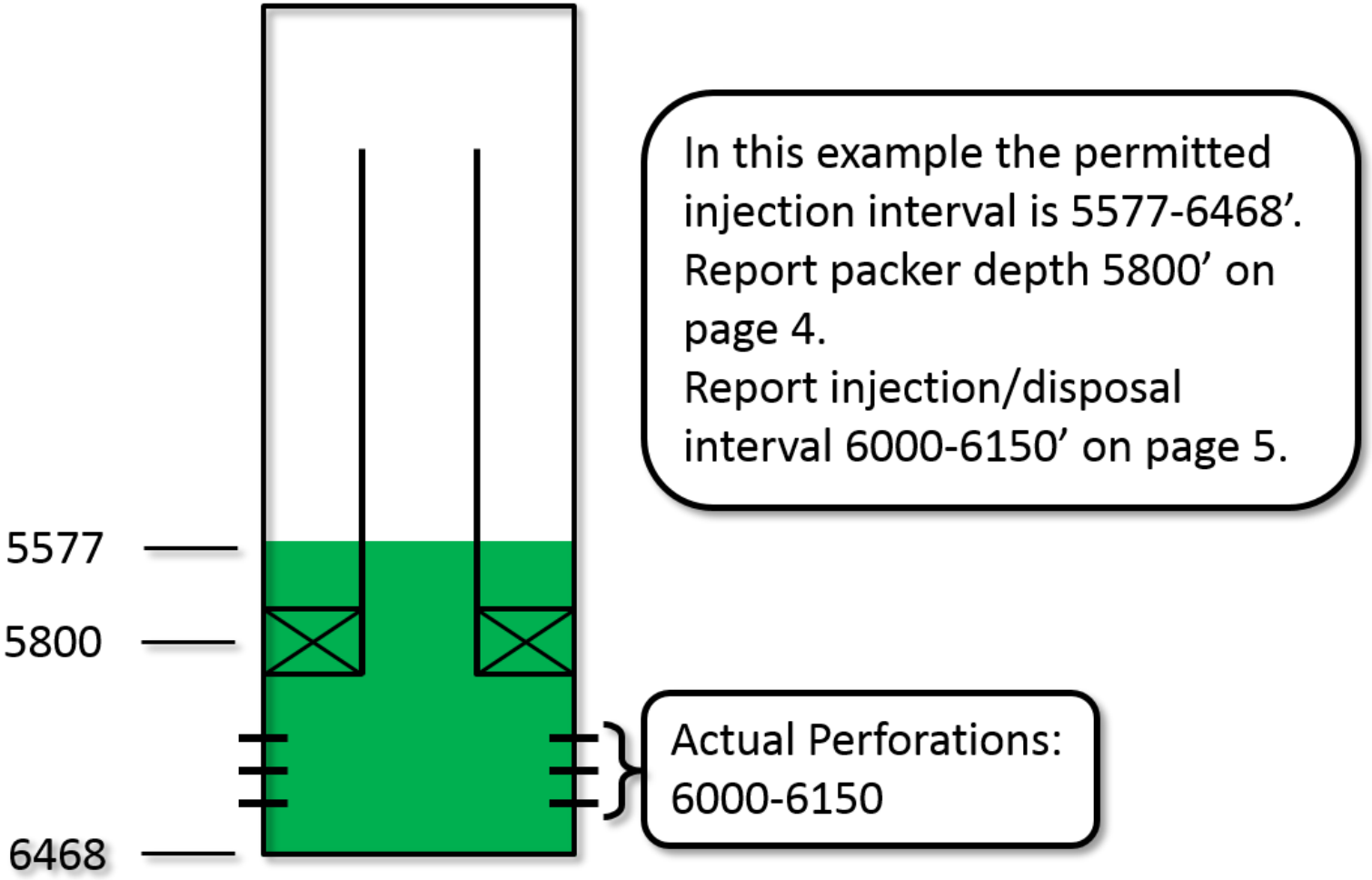
Permitted Interval: 5577'-6468'

Actual Packer Depth: 5800'

WELL IDENTIFICATION AND PERMIT PARAMETERS:

Well No.	API No.	UIC Number	Permitted Fluids	Top Interval (feet)	Bottom Interval (feet)	Maximum Liquid Daily Injection Volume (BBL/day)	Maximum Gas Daily Injection Volume (MCF/day)	Maximum Surface Injection Pressure for Liquid (PSIG)	Maximum Surface Injection Pressure for Gas (PSIG)
3	38332419	000098363	Salt Water, and Other Non-Hazardous O/G Waste	5577	6468	15000	N/A	2750	N/A

UIC Injection/Disposal Interval



Page 5

1 2 3 4 Page 5 6 Save Edit

Producing/Injection/Disposal Interval (this completion) Indicate depth of perforation on open hole

Note: From and To are for Measured Depth for Horizontals.

Row	From (feet)	To (feet)	Bottom Hole Label	Lateral Label	Open Hole
1	8761	16383	Horizontal	Lateral 1	

Remarks:

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUGS, RETAINER, ETC.

Depth Interval	From (feet)	To (feet)	Amount and Kind of Material Used	Process
1	8761.0	16383.0	SEE FRAC FOCUS	Fracture

Remarks:

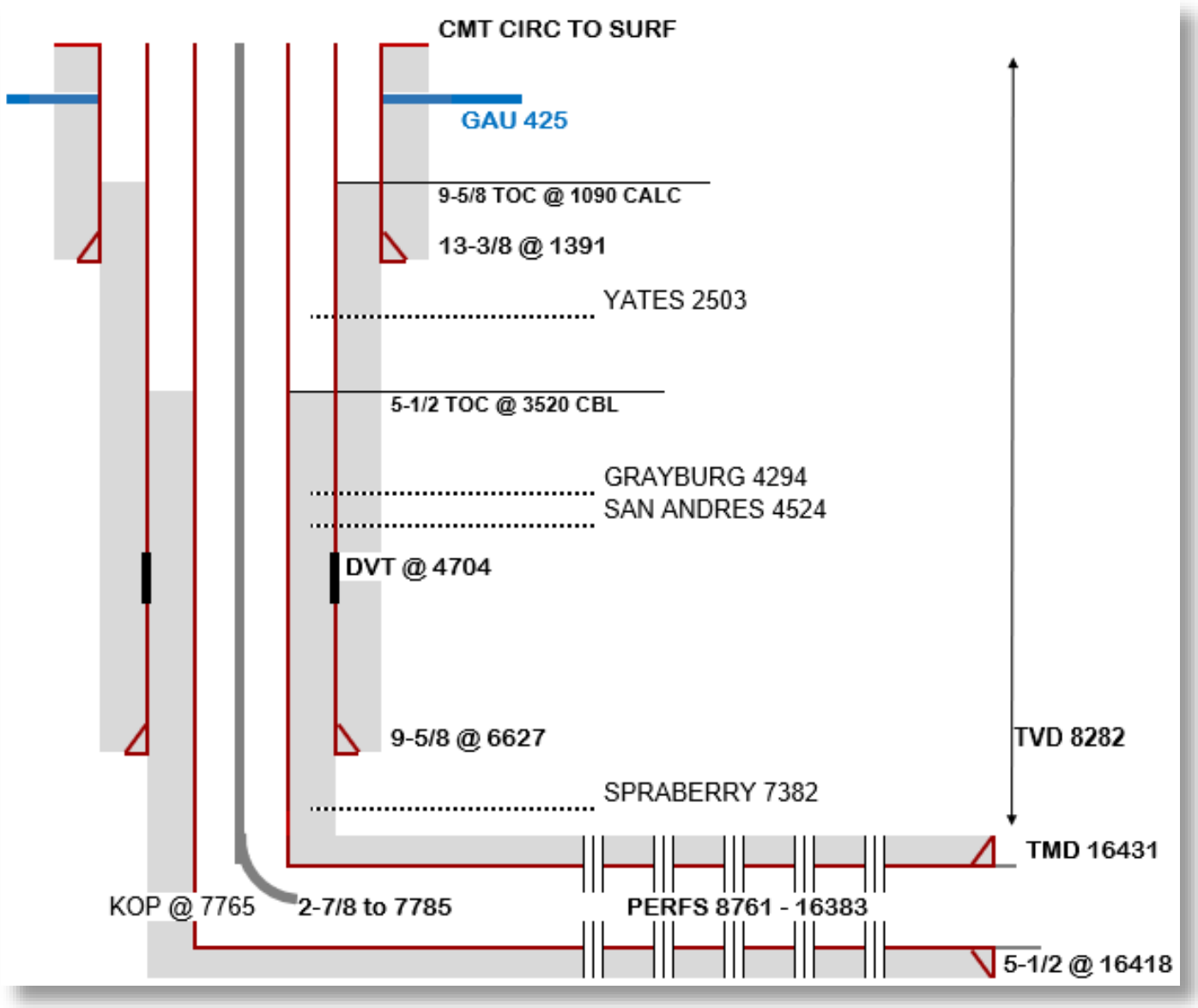
FORMATION RECORD (List depths of Principal Geological Markers and Formation Tops, including, but not limited to, all permitted Disposal/Injection formations within ¼ mile of the wellbore, Productive Zones, Potential Flow Zones, and Corrosive Formation Fluid Zones.)

Row	Principle Markers and Formation Tops	Encountered	Depth -TVD (feet)	Depth - MD (feet)	Isolated	Remarks
1	YATES	✓	2503.8	2525.0	✓	
2	GRAYBURG	✓	4294.9	4359.1	✓	
3	SAN ANDRES - SALTWATER FLOW	✓	4524.2	4593.2	✓	
4	SPRABERRY	✓	7382.4	7471.2	✓	
5	WOLFCAMP					WELL IS NOT DEEP ENOUGH
6	STRAWN					WELL IS NOT DEEP ENOUGH
7	DEVONIAN					WELL IS NOT DEEP ENOUGH
8	FUSSELMAN					WELL IS NOT DEEP ENOUGH
9	ELLENBURGER					WELL IS NOT DEEP ENOUGH

Data on Well Completion and Log I

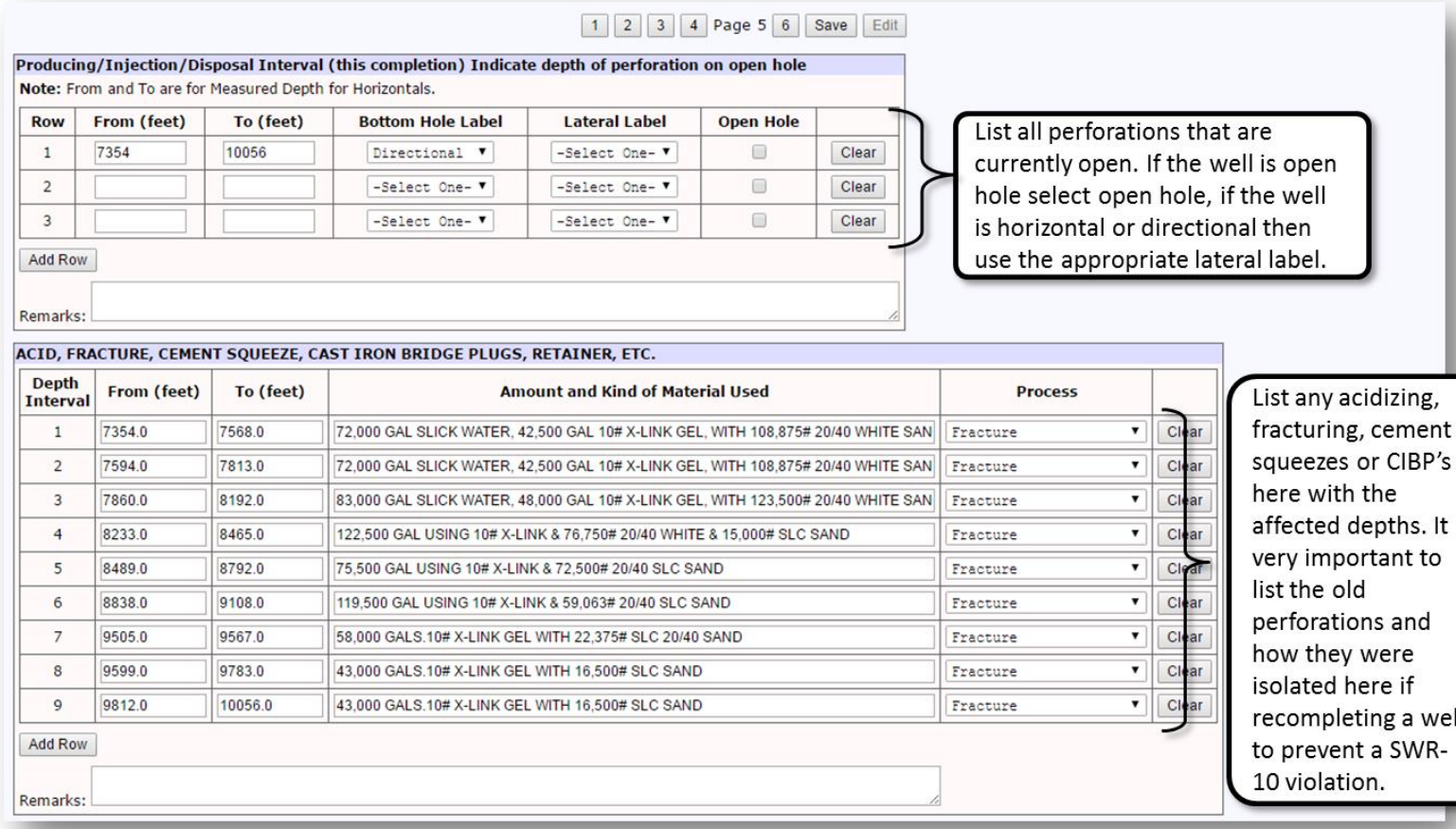
Remarks: KOP ~ 7765'. DIGITAL WELL LOG # 18323 SUBMITTED ON 6.25.19. W-2 WRD TRACKING # 216455 SUBMITTED ON 7.23.19.

SWR-13 Wellbore Diagram



Page 5 (Broken Out Intervals)

OPTION 1



1 2 3 4 Page 5 6 Save Edit

Producing/Injection/Disposal Interval (this completion) Indicate depth of perforation on open hole

Note: From and To are for Measured Depth for Horizontals.

Row	From (feet)	To (feet)	Bottom Hole Label	Lateral Label	Open Hole	
1	7354	10056	Directional	-Select One-	☐	Clear
2			-Select One-	-Select One-	☐	Clear
3			-Select One-	-Select One-	☐	Clear

Add Row

Remarks:

List all perforations that are currently open. If the well is open hole select open hole, if the well is horizontal or directional then use the appropriate lateral label.

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUGS, RETAINER, ETC.

Depth Interval	From (feet)	To (feet)	Amount and Kind of Material Used	Process	
1	7354.0	7568.0	72,000 GAL SLICK WATER, 42,500 GAL 10# X-LINK GEL, WITH 108,875# 20/40 WHITE SAN	Fracture	Clear
2	7594.0	7813.0	72,000 GAL SLICK WATER, 42,500 GAL 10# X-LINK GEL, WITH 108,875# 20/40 WHITE SAN	Fracture	Clear
3	7860.0	8192.0	83,000 GAL SLICK WATER, 48,000 GAL 10# X-LINK GEL, WITH 123,500# 20/40 WHITE SAN	Fracture	Clear
4	8233.0	8465.0	122,500 GAL USING 10# X-LINK & 76,750# 20/40 WHITE & 15,000# SLC SAND	Fracture	Clear
5	8489.0	8792.0	75,500 GAL USING 10# X-LINK & 72,500# 20/40 SLC SAND	Fracture	Clear
6	8838.0	9108.0	119,500 GAL USING 10# X-LINK & 59,063# 20/40 SLC SAND	Fracture	Clear
7	9505.0	9567.0	58,000 GALS.10# X-LINK GEL WITH 22,375# SLC 20/40 SAND	Fracture	Clear
8	9599.0	9783.0	43,000 GALS.10# X-LINK GEL WITH 16,500# SLC SAND	Fracture	Clear
9	9812.0	10056.0	43,000 GALS.10# X-LINK GEL WITH 16,500# SLC SAND	Fracture	Clear

Add Row

Remarks:

List any acidizing, fracturing, cement squeezes or CIBP's here with the affected depths. It is very important to list the old perforations and how they were isolated here if recompleting a well to prevent a SWR-10 violation.

Page 5 (Using a Reference)

OPTION 2

1 2 3 4 Page 5 6 Save Edit

Producing/Injection/Disposal Interval (this completion) Indicate depth of perforation on open hole

Note: From and To are for Measured Depth for Horizontals.

Row	From (feet)	To (feet)	Bottom Hole Label	Lateral Label	Open Hole
1	9950	14990	Horizontal	Lateral 1	☐

Remarks: KICK OFF POINT 8880'

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUGS, RETAINER, ETC.

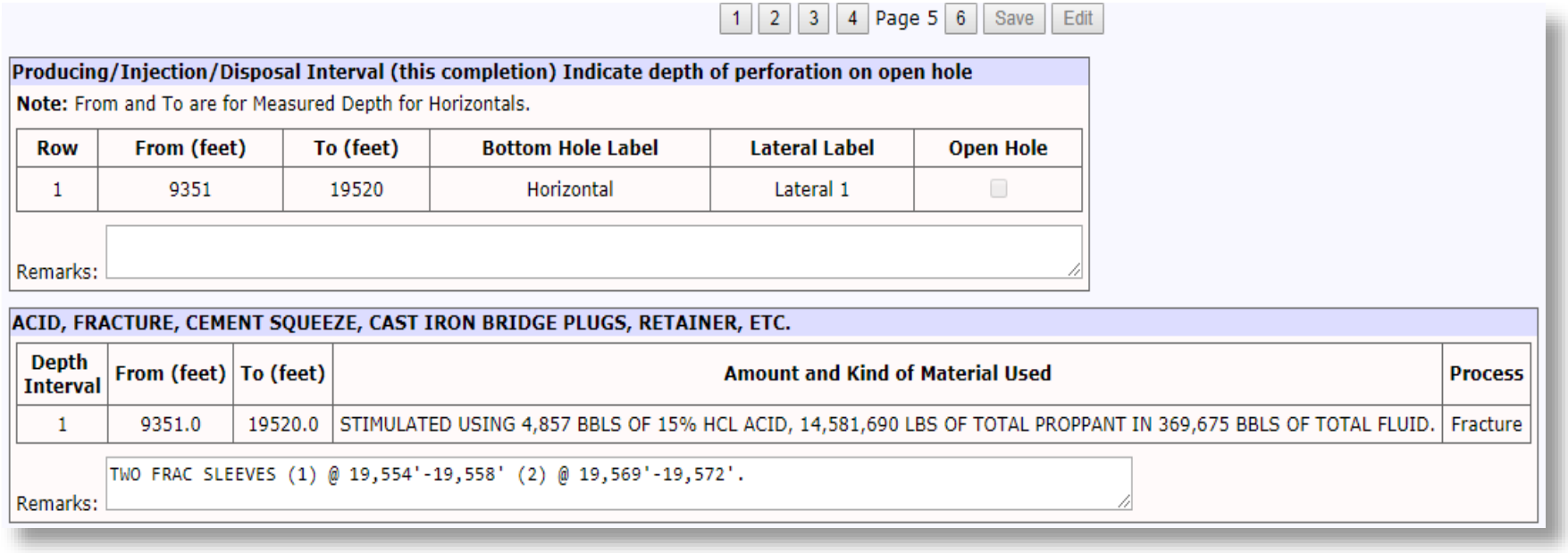
Depth Interval	From (feet)	To (feet)	Amount and Kind of Material Used	Process
1	9950.0	14990.0	SEE FRAC FOCUS	Fracture

Remarks:

- SEE FRAC FOCUS is an acceptable option
- Kick off point in remarks
- Producing and Fractured intervals are the same

Page 5 (Intervals Summarized)

OPTION 3



1 2 3 4 Page 5 6 Save Edit

Producing/Injection/Disposal Interval (this completion) Indicate depth of perforation on open hole

Note: From and To are for Measured Depth for Horizontals.

Row	From (feet)	To (feet)	Bottom Hole Label	Lateral Label	Open Hole
1	9351	19520	Horizontal	Lateral 1	☐

Remarks:

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUGS, RETAINER, ETC.

Depth Interval	From (feet)	To (feet)	Amount and Kind of Material Used	Process
1	9351.0	19520.0	STIMULATED USING 4,857 BBLS OF 15% HCL ACID, 14,581,690 LBS OF TOTAL PROPPANT IN 369,675 BBLS OF TOTAL FLUID.	Fracture

Remarks: TWO FRAC SLEEVES (1) @ 19,554'-19,558' (2) @ 19,569'-19,572'.

- Summarize Frac Stimulants
- Add any helpful Remarks

Page 5 (Encountered)

When to mark to “encountered” in the formation record section?

- The “encountered” checkbox must be marked if the formation/zone was penetrated by this wellbore.
- If “encountered” is marked, the operator must enter a depth.
  - Approach staff geologist for assistance with depths.

Page 5 (Encountered Cont.)

- If the formation/zone was penetrated but not logged, the operator is expected to give a reasonable estimate based on existing available information. Please specify in remarks if the depth is an estimate.
  - Explanations such as “not logged, null, N/A or cement squeeze” are not valid explanations of why not logged.

Page 5 (Not Encountered)

- If “encountered” is not marked, the operator must explain in remarks as to why the formation/zone was not encountered (e.g. pinched-out, well is not deep enough, etc.).
  - Example Remarks
    - Does not exist in the immediate area
    - Not geologically present
- Remark can be listed below productive formation
  - Below TD
  - Well not drilled deep enough vertically.

Page 5 (Isolated)

When to mark “isolated” in the formation record section?

- “Isolated” means that the formation/zone has been isolated by cemented casing pursuant to SWR-13(a)(4)(c), (b)(2)(A), and (b)(3)(B):
  - 600’ Calculation or 200’ inside next casing string
  - 250’ Temperature Survey
  - 100’ Cement Bond Log

Page 5 (Isolated Cont.)

- If the formation/zone was encountered by the wellbore, the operator must indicate whether that formation/zone was isolated by cemented casing pursuant to these requirements of SWR-13.

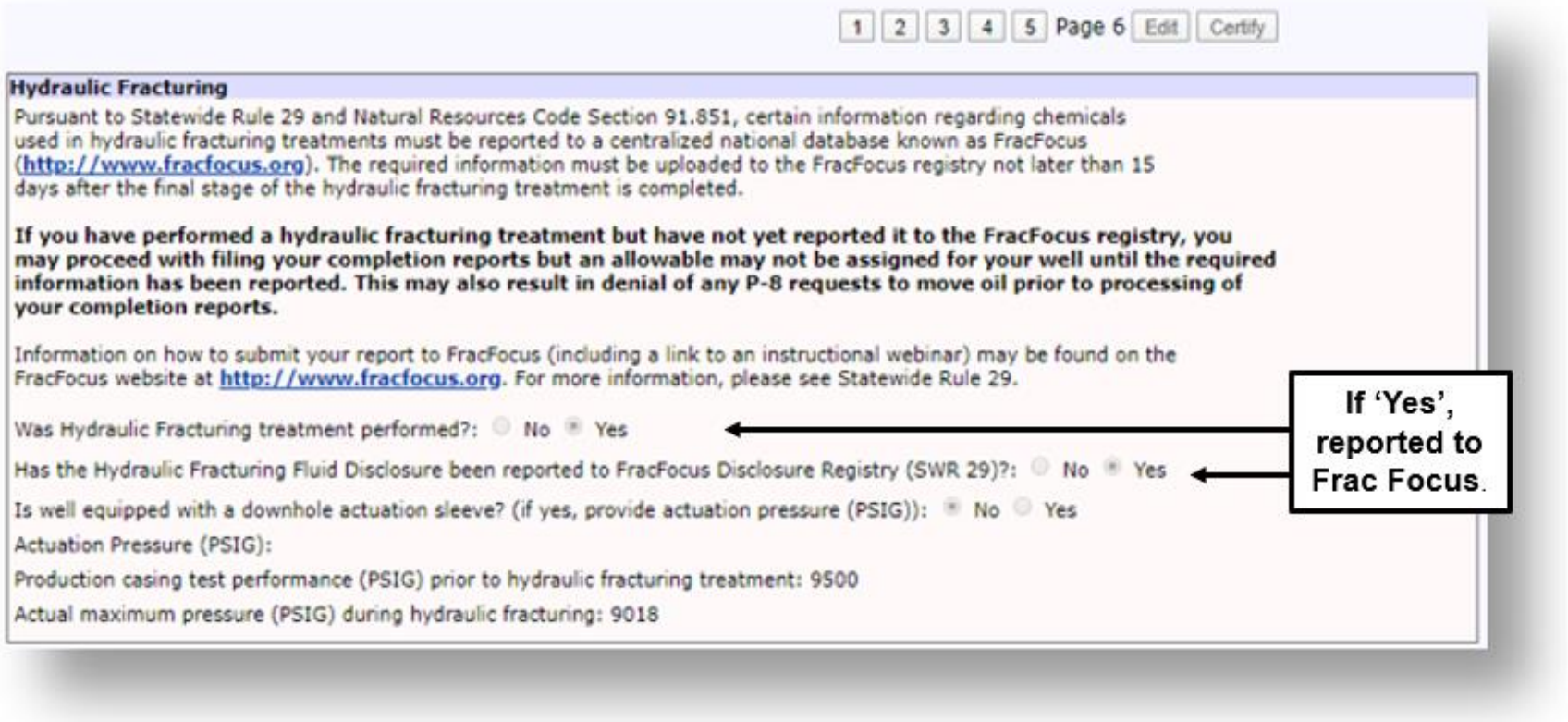
Page 5 (Not Isolated)

- If the formation/zone is part of the completion interval, and is adequately confined by cemented casing, **do mark isolated**.
  - Yes, mark “isolated” zone perforated
- If the formation/zone was not encountered, the “isolated” checkbox will not be applicable.
  - Zone may be below TD.

Page 5 (Not Isolated Cont.)

- If the formation/zone was encountered but is not isolated by cemented casing, do not mark isolated. In this case, the operator must explain in remarks as to why the formation/zone was not isolated.
  - If formation is present but not productive in the immediate area (within quarter-mile radius of wellbore), add a Remark.

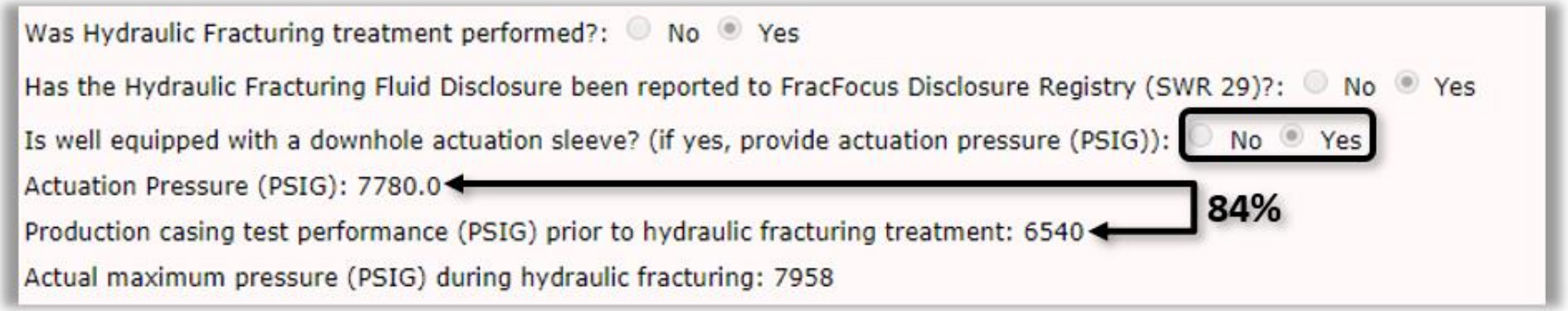
Page 6 (Hydraulic Fracturing)



Page 6 (Actuation Pressure)

Is well equipped with a downhole actuation sleeve?

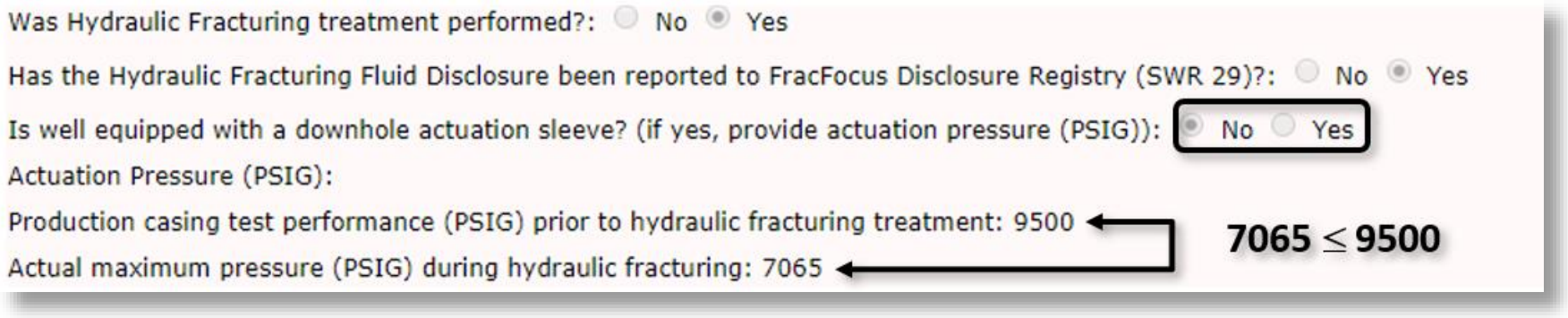
If **yes**, production casing test pressure has to be >= 80% of the actuation pressure.



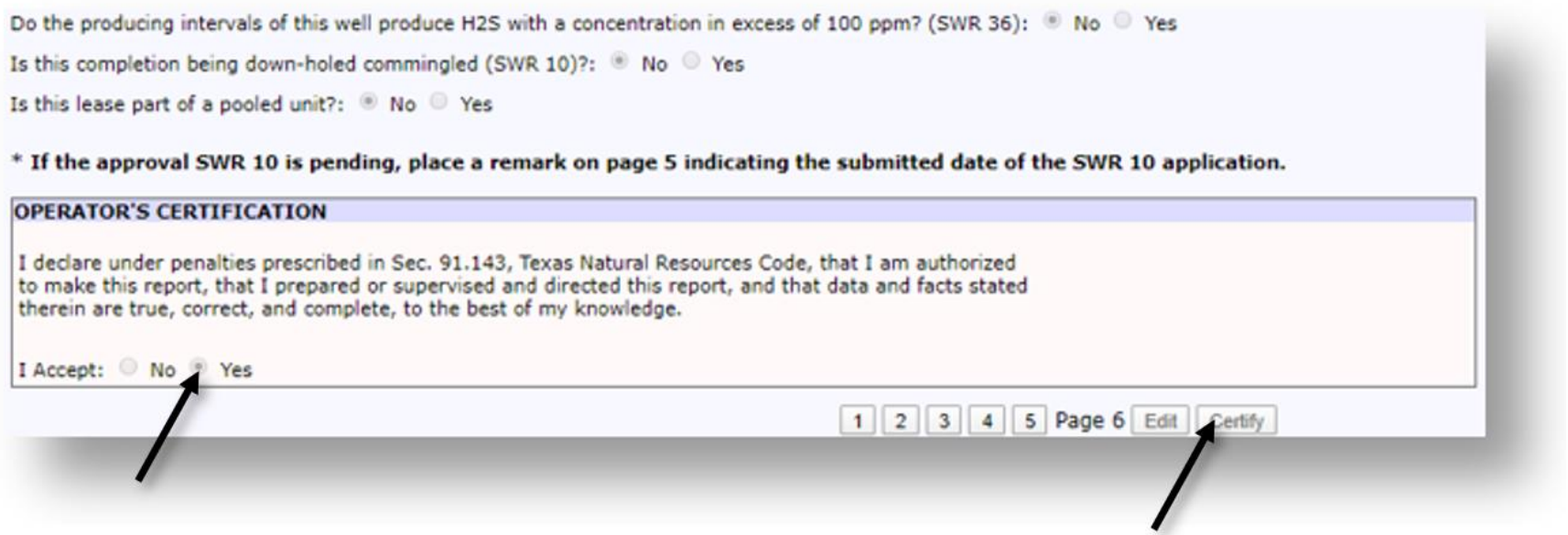
Page 6 (Actual Maximum Pressure)

Is well equipped with a downhole actuation sleeve?

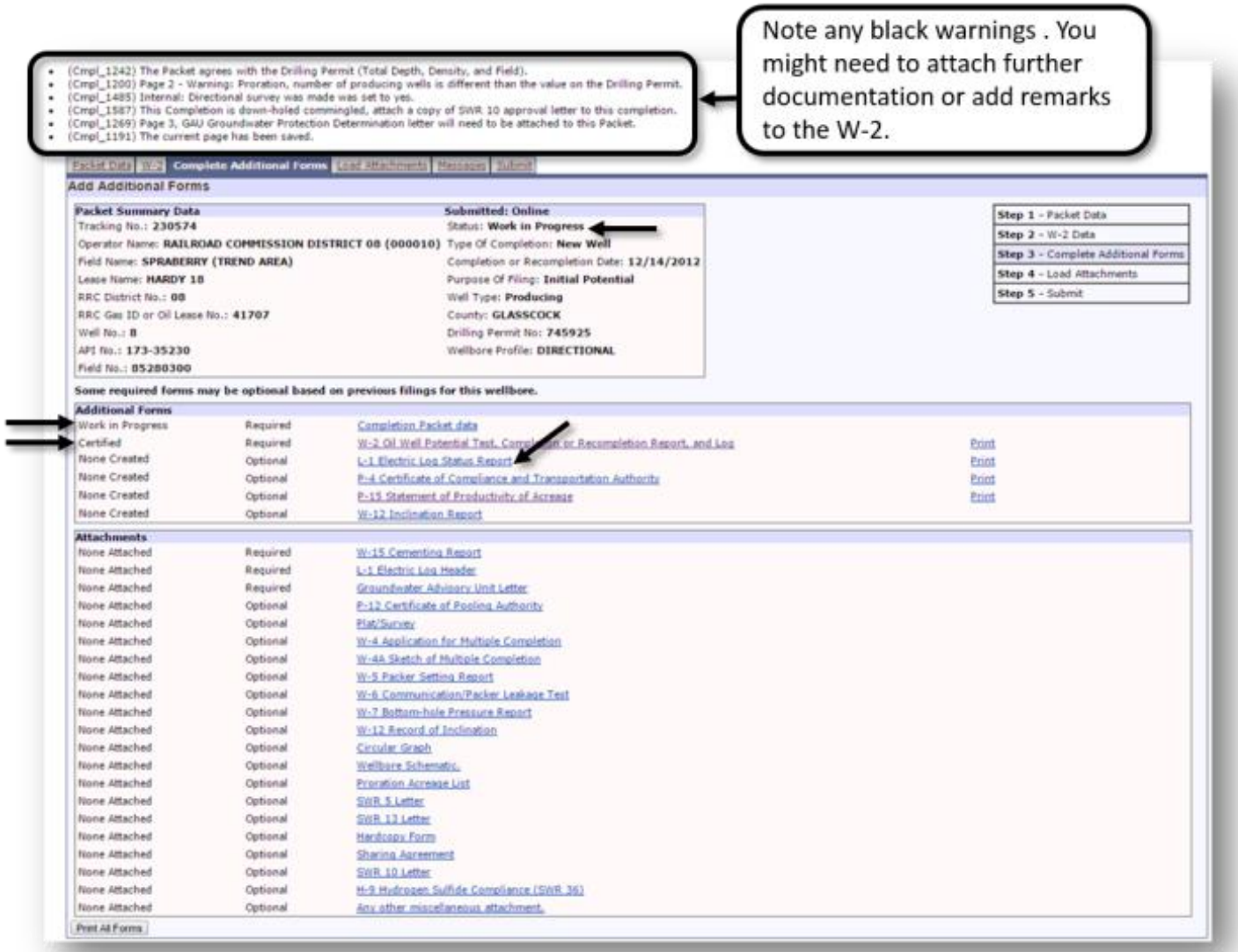
If **no** downhole actuation sleeve, Actual Maximum Pressure should be less than or equal to Production Casing Test Performance.



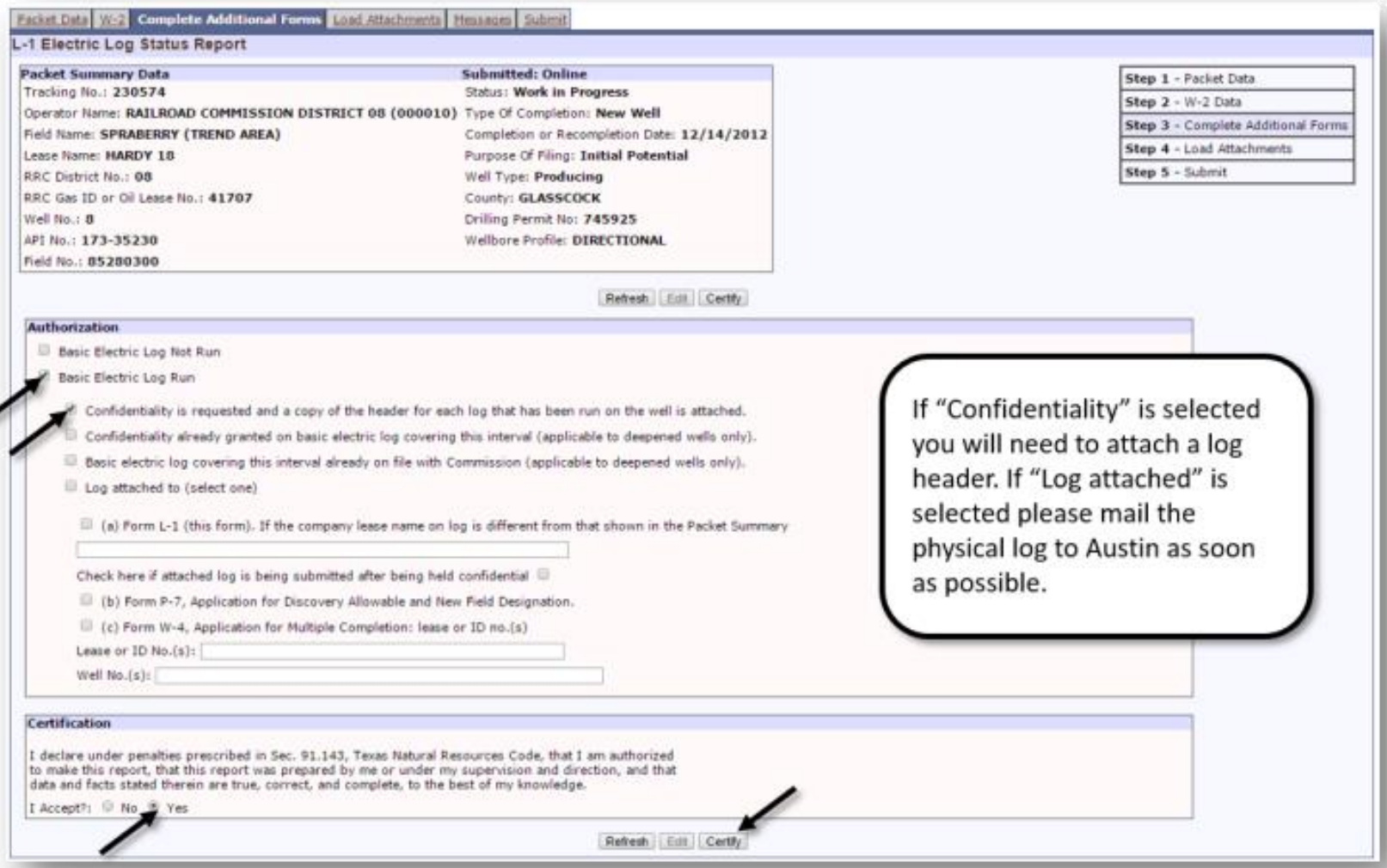
Page 6 (Certification)



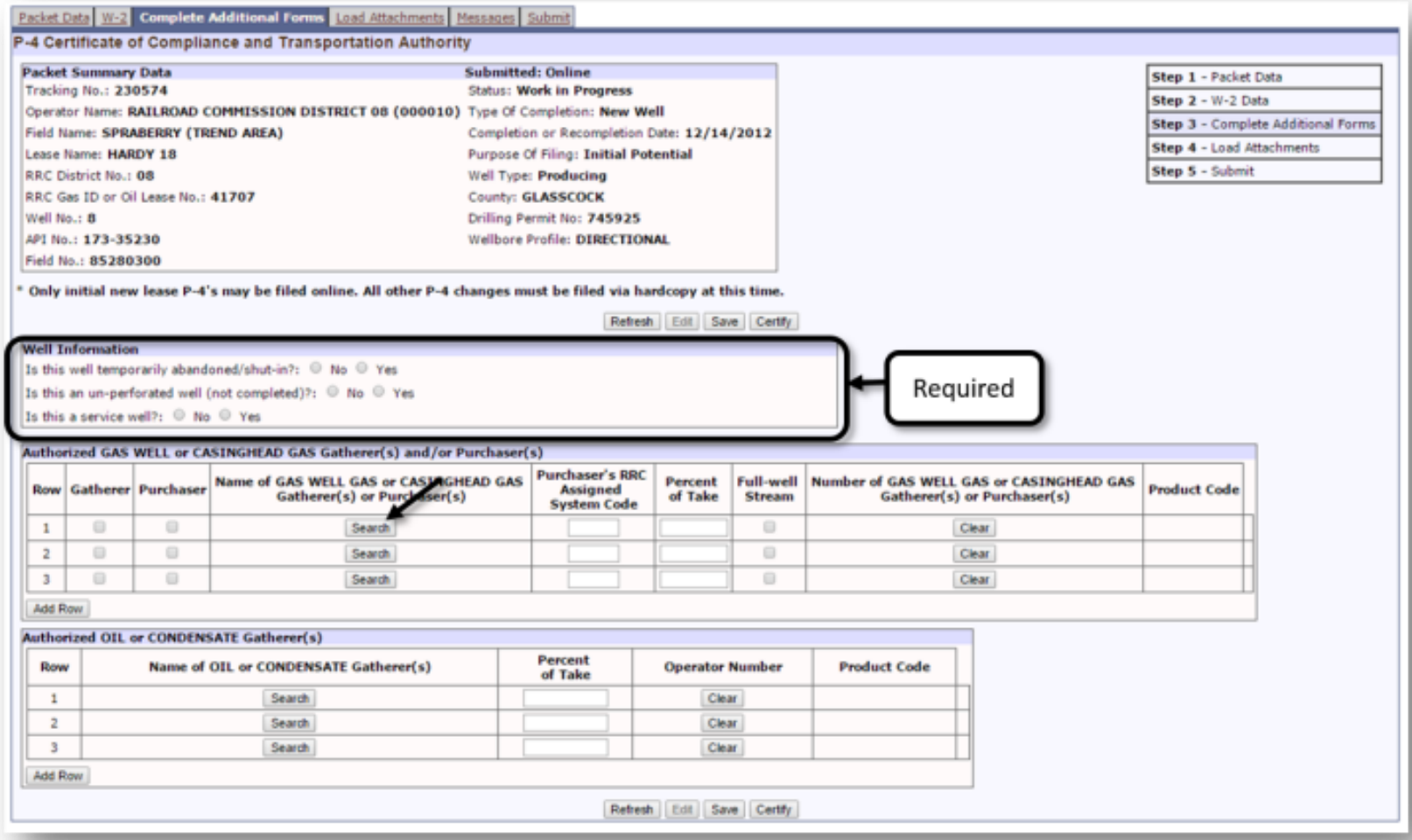
Complete Additional Forms



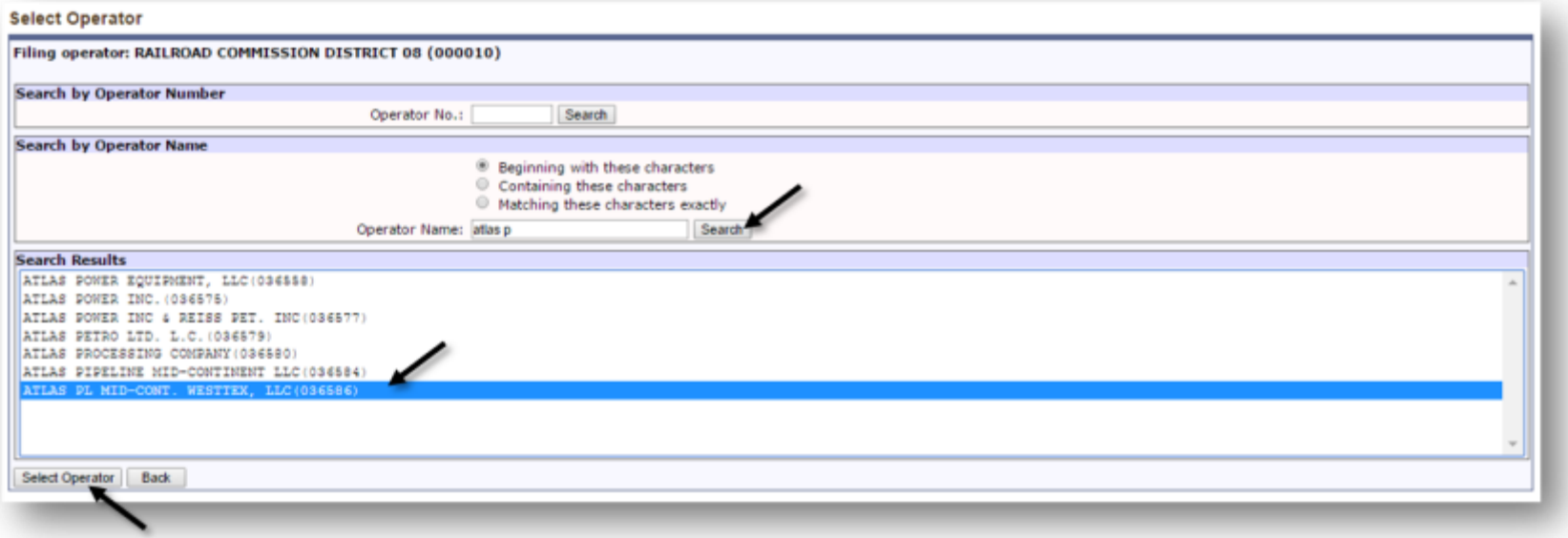
L-1 (Electric Log Status Report)



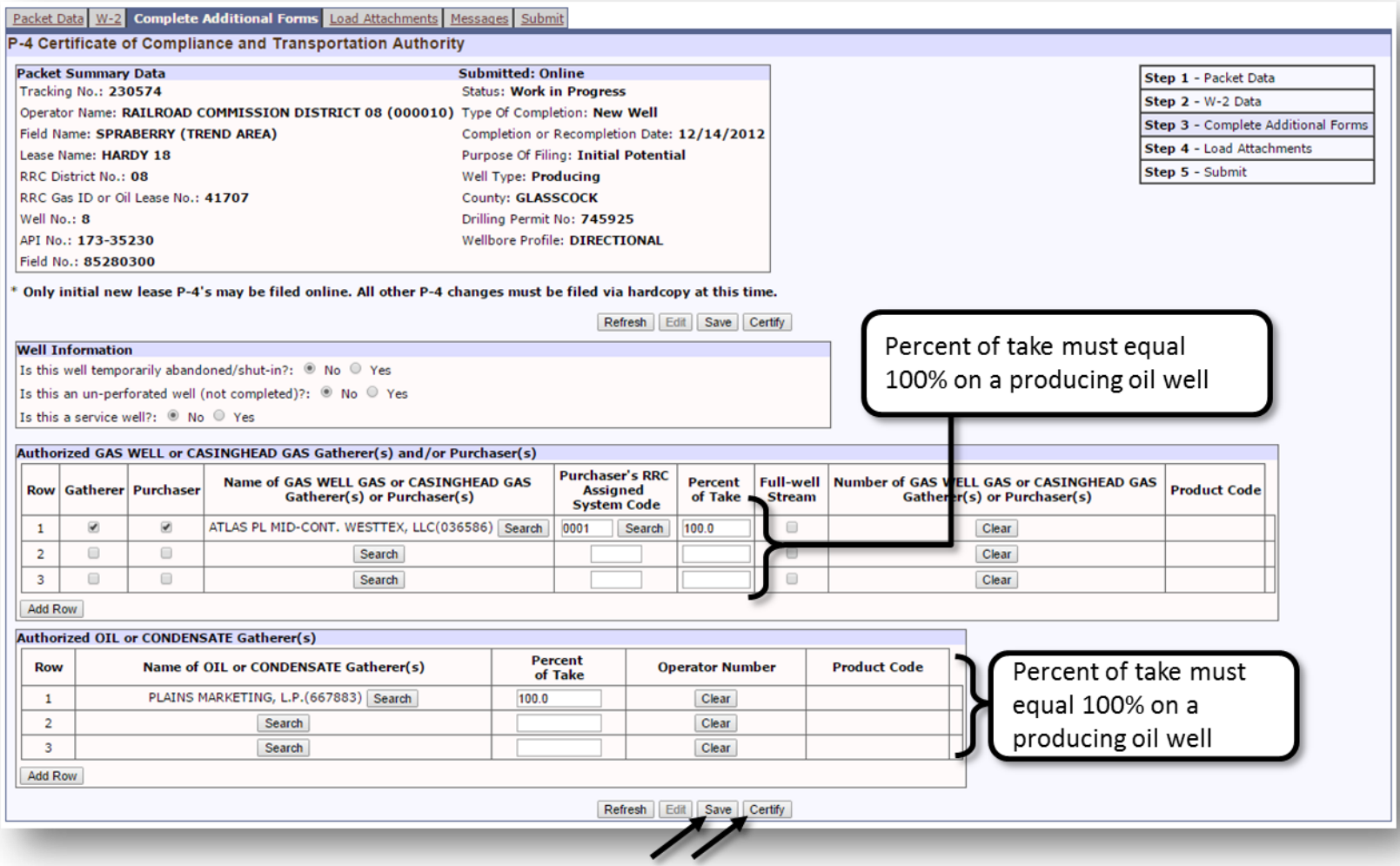
P-4 (Cert. of Comp. & Trans. Authority)



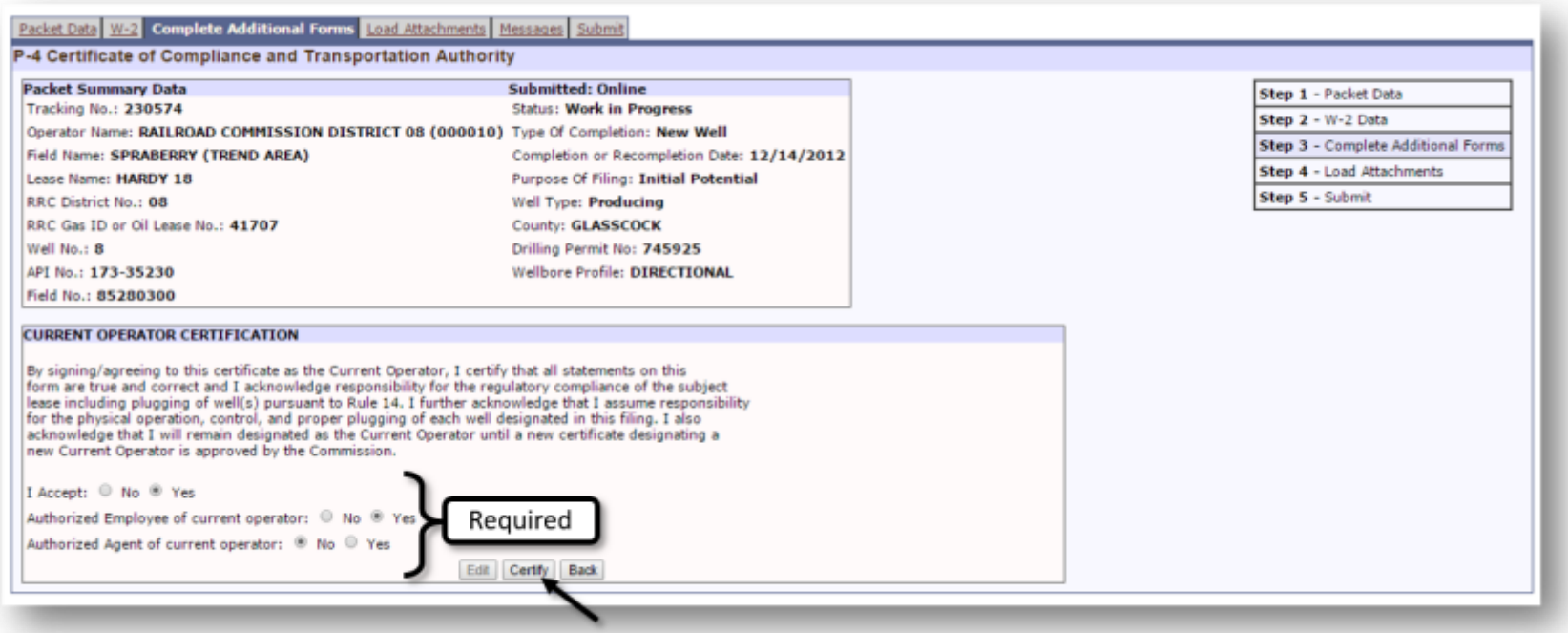
P-4 (Searching for Gatherers & Purchasers)



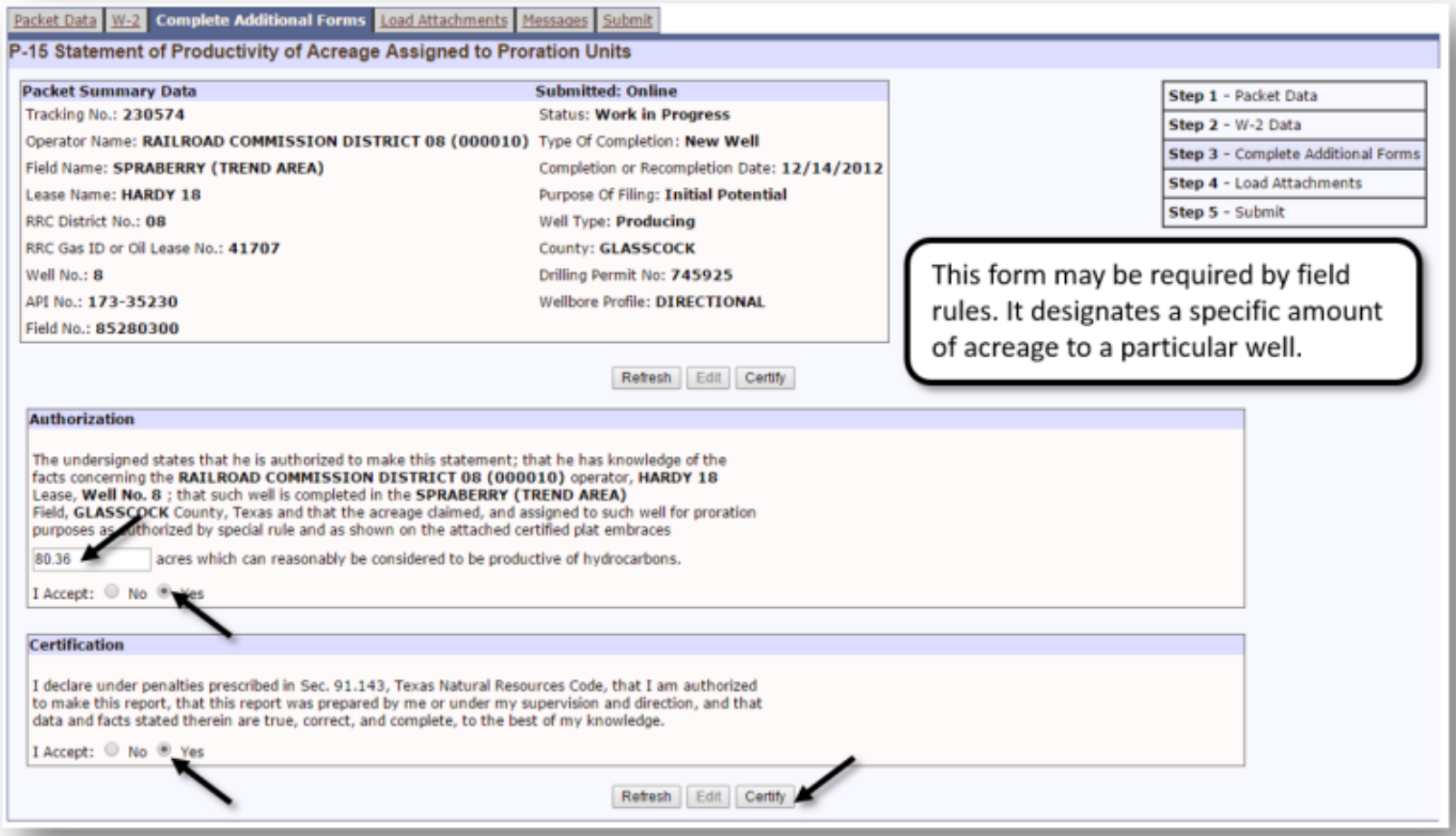
Certifying & Saving the P-4



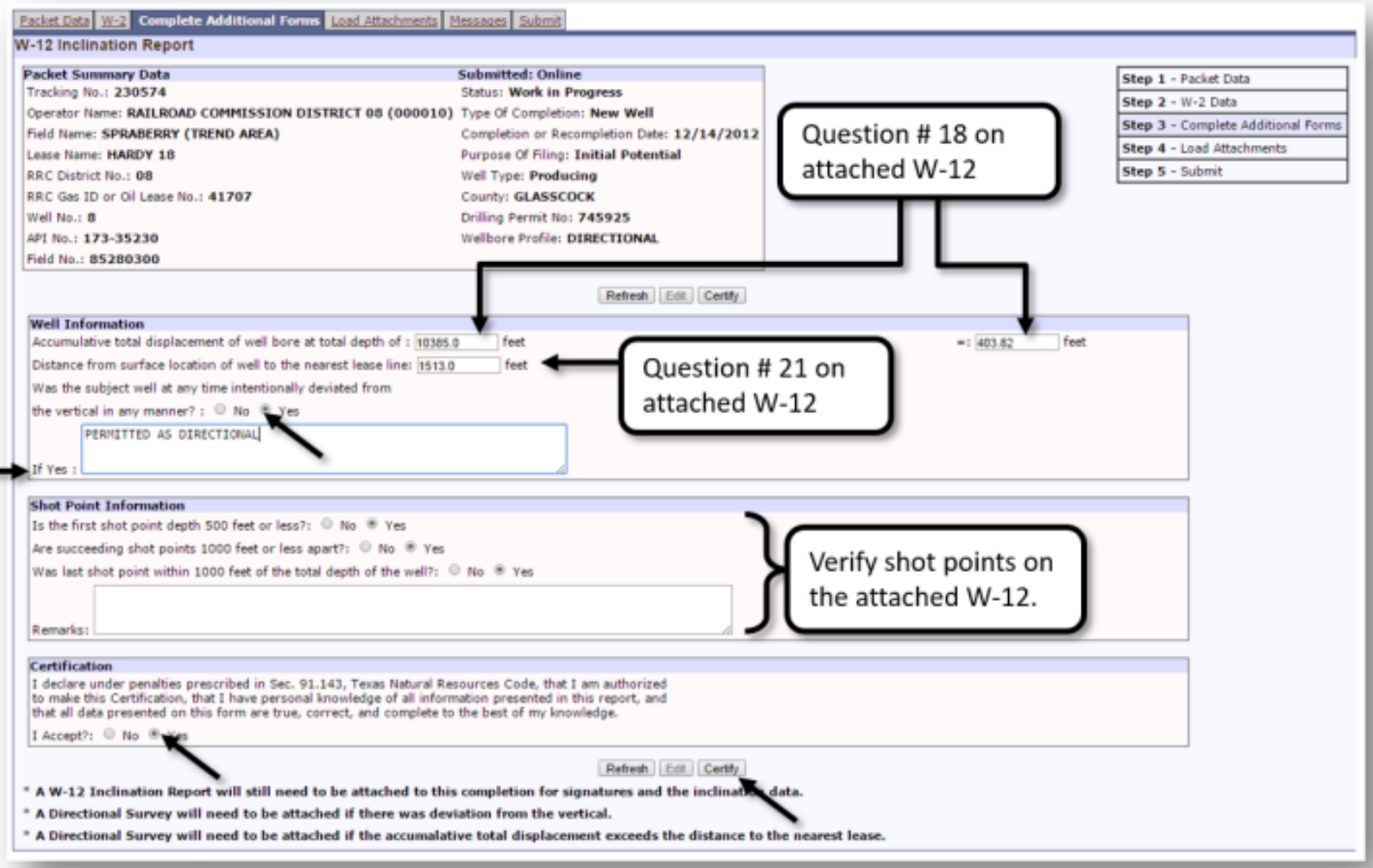
P-4 (Certification Page)



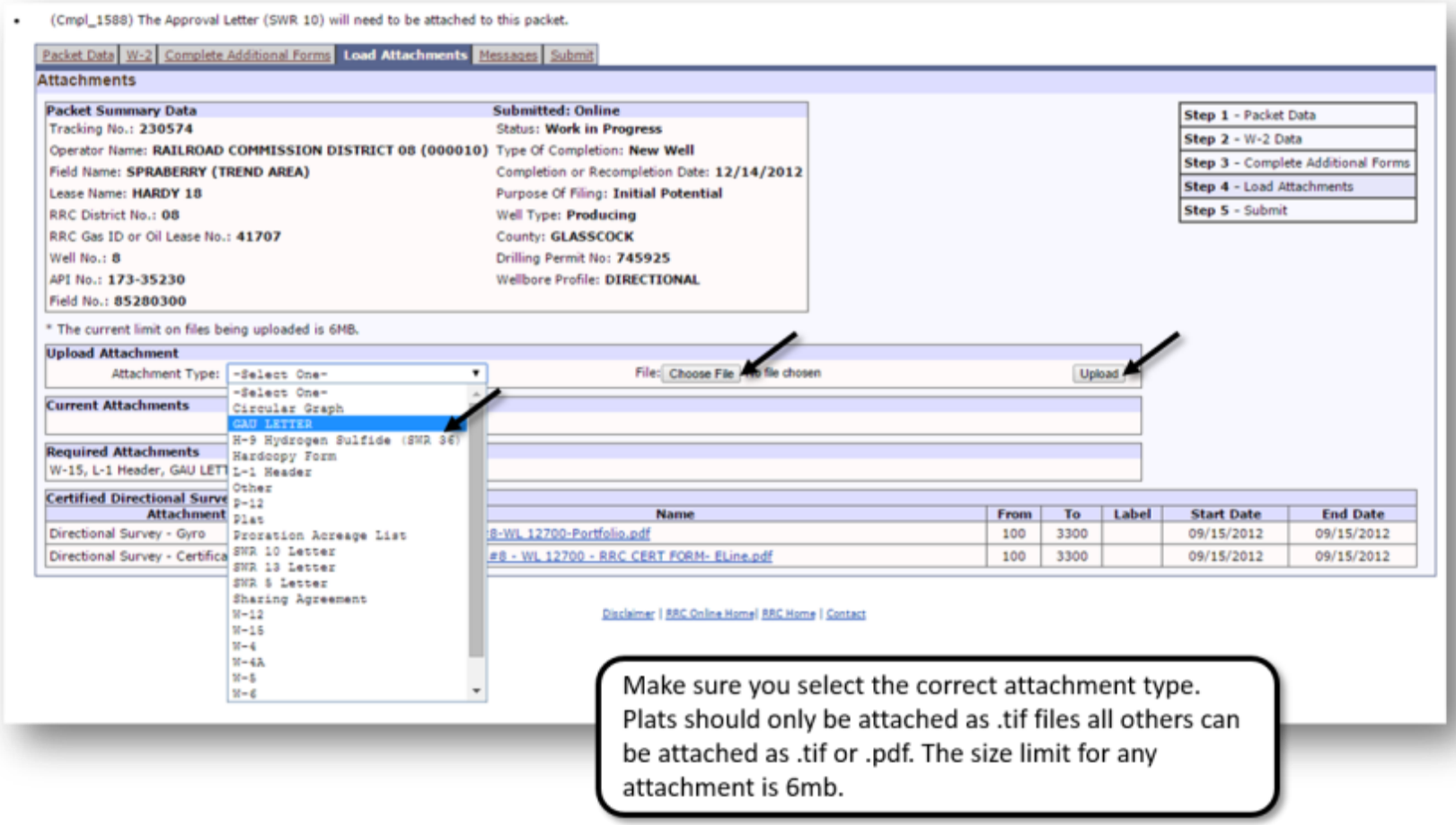
P-15 (Statement of Productivity of Acreage)



Online Fillable W-12 (Inclination Report)



Load Attachments



Make sure you select the correct attachment type. Plats should only be attached as .tif files all others can be attached as .tif or .pdf. The size limit for any attachment is 6mb.

GAU Letter (Date Issued)

GROUNDWATER PROTECTION DETERMINATION **Form GW-2**

Groundwater Advisory Unit

Date Issued:	24 January 2017	**GAU Number:**	166089

Attention:	TRACKER RESOURCE DEV III, 1050 17TH STREET SUITE DENVER, CO 80265	**API Number:**	23536167
		County:	IRION
		Lease Name:	BARNHART 77S75
		Lease Number:	
Operator No.:	864047	**Well Number:**	3LM
		Total Vertical Depth:	7500
		Latitude:	31.242421
		Longitude:	-101.159951
		Datum:	NAD27

GAU Letter (Applicable Radius)

Operator No.:	864047	**Lease Number:**	
		Well Number:	3LM
		Total Vertical Depth:	7500
		Latitude:	31.242421
		Longitude:	-101.159951
		Datum:	NAD27

Purpose: New Drill

Location: Survey-H&TC RR CO; Abstract-393; Block-14; Section-77

To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Railroad Commission of Texas recommends:

The interval from the land surface to the base of the Santa Rosa, which is estimated to occur at a depth of 700 feet, must be protected.

This recommendation is applicable to all wells within a radius of 300 feet of this location.

GAU Letter (Subject Well Only)

To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Railroad Commission of Texas recommends:

The interval from the land surface to the base of the Santa Rosa, which is estimated to occur at a depth of 700 feet, must be protected.

This recommendation is applicable to all wells within a radius of 300 feet of this location.

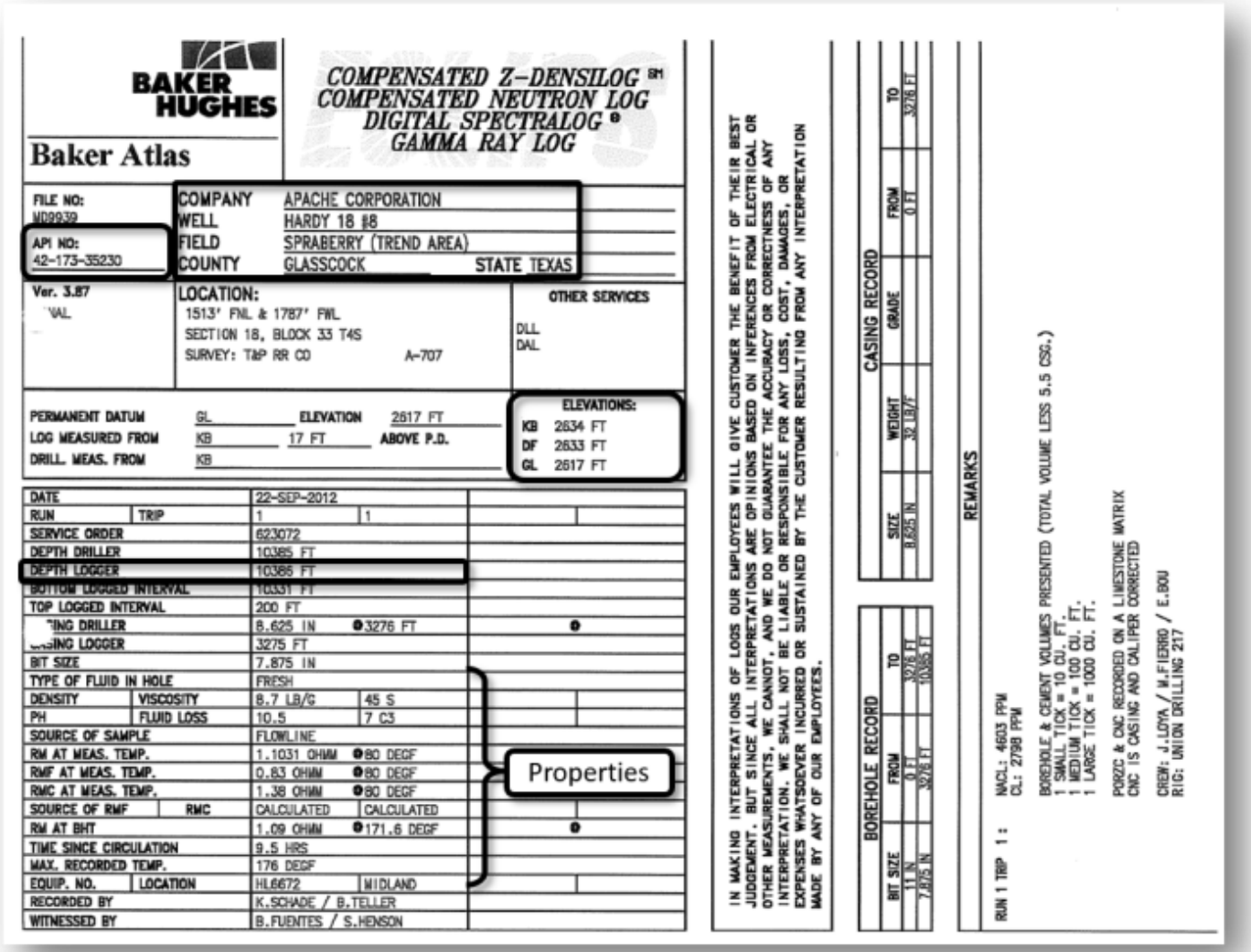
Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form W-14).

This determination is based on information provided when the application was submitted on 01/18/2017. If the location information has changed, you must contact the Groundwater Advisory Unit, and submit a new application if necessary. If you have questions, please contact us at 512-463-2741 or gau@rrc.texas.gov.

Groundwater Advisory Unit, Oil and Gas Division

Form GW-2 P.O. Box 12967 Austin, Texas 78771-2967 512-463-2741 Internet address: www.rrc.texas.gov
Rev. 02/2014

L-1 Header



BAKER HUGHES

Baker Atlas

COMPENSATED Z-DENSILOG ™
COMPENSATED NEUTRON LOG
DIGITAL SPECTRALOG ®
GAMMA RAY LOG

FILE NO: WD9939
API NO: 42-173-35230

COMPANY APACHE CORPORATION
WELL HARDY 18 #8
FIELD SPRABERRY (TREND AREA)
COUNTY GLASSCOCK STATE TEXAS

Ver. 3.87
VAL

LOCATION:
1513' FNL & 1787' FWL
SECTION 18, BLOCK 33 T4S
SURVEY: T&P RR CO A-707

OTHER SERVICES
DLL
DAL

PERMANENT DATUM GL ELEVATION 2617 FT
LOG MEASURED FROM KB 17 FT ABOVE P.D.
DRILL. MEAS. FROM KB

ELEVATIONS:
KB 2634 FT
DF 2633 FT
GL 2617 FT

DATE		22-SEP-2012	
RUN	TRIP	1	1
SERVICE ORDER		623072	
DEPTH DRILLER		10385 FT	
DEPTH LOGGER		10386 FT	
BOTTOM LOGGED INTERVAL		10331 FT	
TOP LOGGED INTERVAL		200 FT	
CASING DRILLER		8.625 IN @3276 FT	@
CASING LOGGER		3275 FT	
BIT SIZE		7.875 IN	
TYPE OF FLUID IN HOLE		FRESH	
DENSITY	VISCOSITY	8.7 LB/G	45 S
PH	FLUID LOSS	10.5	7 C3
SOURCE OF SAMPLE		FLOWLINE	
RM AT MEAS. TEMP.		1.1031 OHMM @80 DEGF	
RMF AT MEAS. TEMP.		0.83 OHMM @80 DEGF	
RMC AT MEAS. TEMP.		1.38 OHMM @80 DEGF	
SOURCE OF RMF	RMC	CALCULATED	CALCULATED
RM AT BHT		1.09 OHMM @171.6 DEGF	@
TIME SINCE CIRCULATION		9.5 HRS	
MAX. RECORDED TEMP.		176 DEGF	
EQUIP. NO.	LOCATION	HL6672	MIDLAND
RECORDED BY		K.SCHADE / B.TELLER	
WITNESSED BY		B.FUENTES / S.HENSON	

Properties

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
8.625 IN	32 LB/F		0 FT	3276 FT

BOREHOLE RECORD

BIT SIZE	FROM	TO
11 IN	0 FT	3276 FT
7.875 IN	3276 FT	10385 FT

REMARKS

RUN 1 TRIP 1 : NACL: 4603 PPM
CL: 2798 PPM

BOREHOLE & CEMENT VOLUMES PRESENTED (TOTAL VOLUME LESS 5.5 CSG.)
1 SMALL TICK = 10 CU. FT.
1 MEDIUM TICK = 100 CU. FT.
1 LARGE TICK = 1000 CU. FT.

POROZ & CNC RECORDED ON A LIMESTONE MATRIX
CNC IS CASING AND CALIPER CORRECTED

CREW: J.LOYA / M.FIERRO / E.BOU
RIG: UNION DRILLING 217

Log & Log Header Requirements

- Company Name
- Lease Name
- Well Number
- Field
- API number
- Elevations
- Fluid/Mud Properties
- Logger depth must cover the producing interval
- Log header must be legible for audit and scanning
- Log must be continuous

Plat

Proration Plat Example

Lease Plat Example

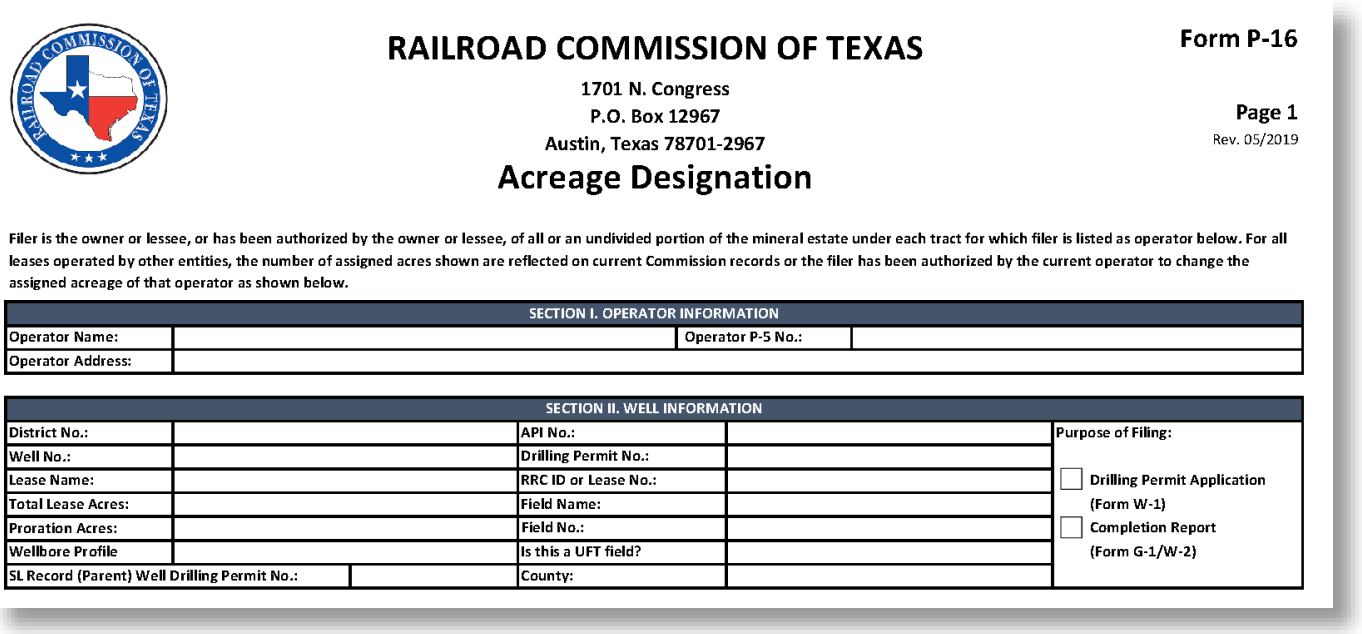
Proration Acreage List

Oil Lease No./Gas Well ID No: 41707
Lease Name(s): HARDY 18
Operator(s): APACHE CORPORATION 027200

API No.	District	Lease No.	Lease Name	Well No.	Field No	Field Name	Acres
17333893	8	41707	HARDY 18	1	85280300	SPRABERRY (TREND AREA)	40.18
17333913	8	41707	HARDY 18	2	85280300	SPRABERRY (TREND AREA)	40.18
17334943	8	41707	HARDY 18	3	85280300	SPRABERRY (TREND AREA)	80.36
17334664	8	41707	HARDY 18	5	85280300	SPRABERRY (TREND AREA)	40.18
17334947	8	41707	HARDY 18	6	85280300	SPRABERRY (TREND AREA)	40.18
17335229	8	41707	HARDY 18	7	85280300	SPRABERRY (TREND AREA)	80.36
17335230	8	41707	HARDY 18	8	85280300	SPRABERRY (TREND AREA)	80.36
17335273	8	41707	HARDY 18	9	85280300	SPRABERRY (TREND AREA)	80.36
17335407	8	41707	HARDY 18	10	85280300	SPRABERRY (TREND AREA)	40
17335408	8	41707	HARDY 18	11	85280300	SPRABERRY (TREND AREA)	40.36
17335879	8	41707	HARDY 18	12	85280300	SPRABERRY (TREND AREA)	40.36
17335880	8	41707	HARDY 18	13	85280300	SPRABERRY (TREND AREA)	40
						ALLOCATED ACRES IN LEASE	642.88
						TOTAL ACRES IN LEASE	642.9
						UNALLOCATED ACRES IN LEASE	0.02

An acreage list may be required by field rules. It details each well on the lease in the specified field and the acres allocated to each well.

P-16 (Acreage Designation Section I & II)



RAILROAD COMMISSION OF TEXAS

1701 N. Congress
P.O. Box 12967
Austin, Texas 78701-2967

Form P-16

Page 1
Rev. 05/2019

Acreage Designation

Filer is the owner or lessee, or has been authorized by the owner or lessee, of all or an undivided portion of the mineral estate under each tract for which filer is listed as operator below. For all leases operated by other entities, the number of assigned acres shown are reflected on current Commission records or the filer has been authorized by the current operator to change the assigned acreage of that operator as shown below.

SECTION I. OPERATOR INFORMATION			
Operator Name:		Operator P-5 No.:	
Operator Address:			

SECTION II. WELL INFORMATION				
District No.:		API No.:		Purpose of Filing:
Well No.:		Drilling Permit No.:		
Lease Name:		RRC ID or Lease No.:		☐ Drilling Permit Application (Form W-1)
Total Lease Acres:		Field Name:		
Proration Acres:		Field No.:		☐ Completion Report (Form G-1/W-2)
Wellbore Profile		Is this a UFT field?		
SL Record (Parent) Well Drilling Permit No.:		County:		

P-16 (Acreage Designation Section III & IV)

SECTION III. LISTING OF ALL WELLS IN THE APPLIED-FOR FIELD ON THE SAME ACREAGE AS THE LEASE, POOLED UNIT, OR UNITIZED TRACT DESIGNATED IN SECTION II ABOVE BY FILER

RRC ID No. or Lease No.	Well No.	Profile	Lease Name	API No.	Acres Assigned	SWR 38 Except. (Y/N)	Operator Name and Operator No. (if different from filing operator)

A. Total Assigned Horiz. Acreage =
Total Remaining Horiz. Acreage =
B. Total Assigned Vert./Dir. Acreage =
Total Remaining Vert./Dir. Acreage =

C. Total Assigned Acreage =
Total Remaining Acreage =

SECTION IV. REMARKS - REQUIRED FOR PSA AND CO-DEVELOPMENT *(refer to instructions)*

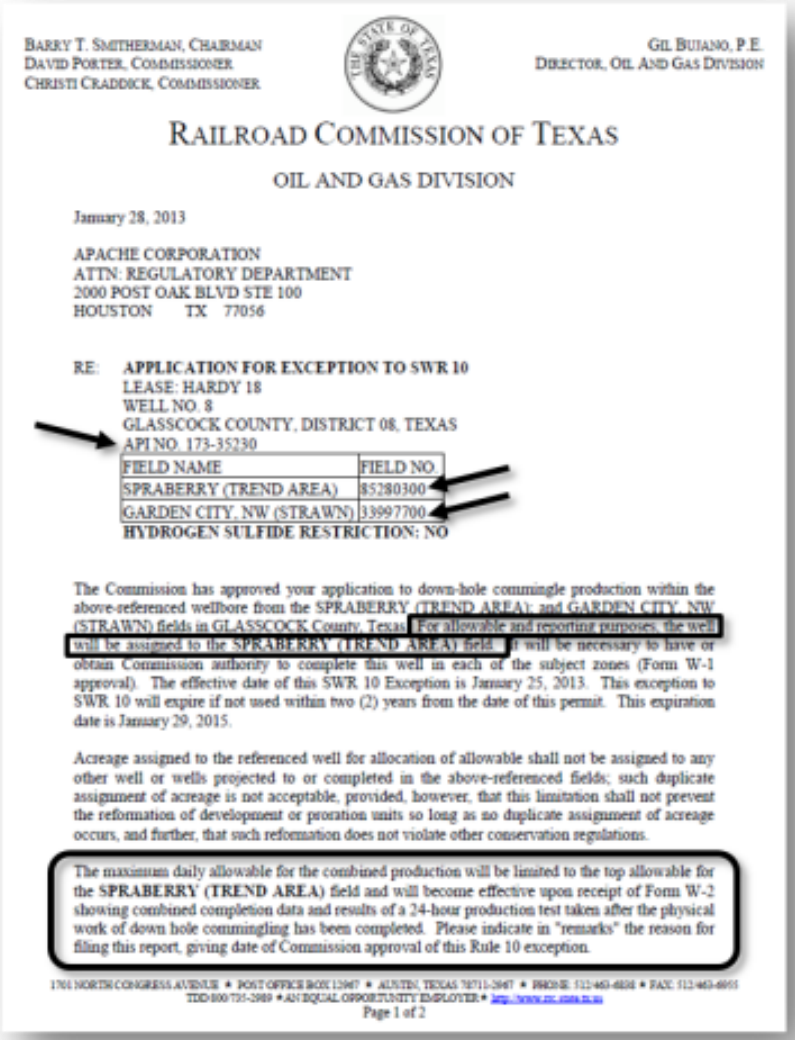
Attach Additional Pages As Needed. ☐ No additional pages ☐ Additional Pages: ___ (No. of additional pages)

CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that this report was prepared by me or under my supervision or direction, that I am authorized to make this report, and that the information contained in this report is true, correct, and complete to the best of my knowledge.

Signature | Name and title (type or print) | Email (include email address *only* if you affirmatively consent to its public release)

Address | City, | State, | Zip Code | Tel: Area Code Number | Date: mo. day yr.

SWR-10 Letter (Downhole Commingling)



BARRY T. SMITHERMAN, CHAIRMAN
DAVID PORTER, COMMISSIONER
CHRISTI CRADDICK, COMMISSIONER

GIL BUJANO, P.E.
DIRECTOR, OIL AND GAS DIVISION

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

January 28, 2013

APACHE CORPORATION
ATTN: REGULATORY DEPARTMENT
2000 POST OAK BLVD STE 100
HOUSTON TX 77056

RE: **APPLICATION FOR EXCEPTION TO SWR 10**
LEASE: HARDY 18
WELL NO. 8
GLASSCOCK COUNTY, DISTRICT 08, TEXAS
API NO. 173-35230

FIELD NAME	FIELD NO.
SPRABERRY (TREND AREA)	85280300
GARDEN CITY, NW (STRAWN)	33997700

HYDROGEN SULFIDE RESTRICTION: NO

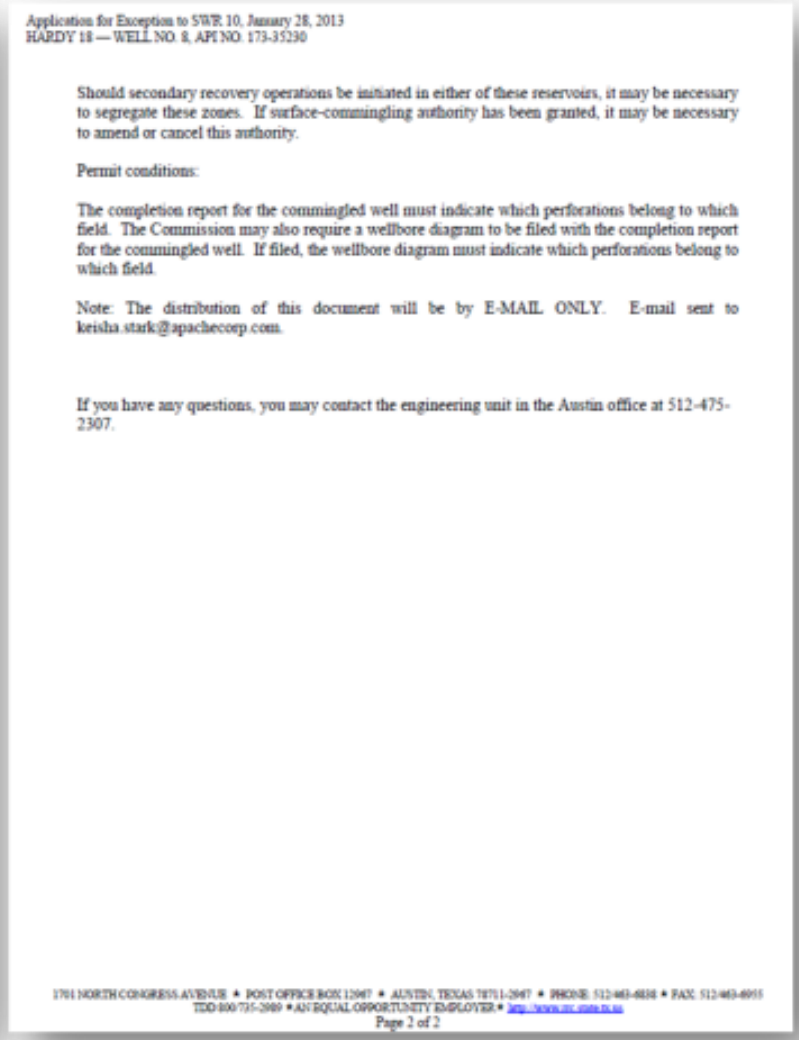
The Commission has approved your application to down-hole commingle production within the above-referenced wellbore from the SPRABERRY (TREND AREA) and GARDEN CITY, NW (STRAWN) fields in GLASSCOCK County, Texas. For allowable and reporting purposes, the well will be assigned to the SPRABERRY (TREND AREA) field. It will be necessary to have or obtain Commission authority to complete this well in each of the subject zones (Form W-1 approval). The effective date of this SWR 10 Exception is January 25, 2013. This exception to SWR 10 will expire if not used within two (2) years from the date of this permit. This expiration date is January 29, 2015.

Acreage assigned to the referenced well for allocation of allowable shall not be assigned to any other well or wells projected to or completed in the above-referenced fields; such duplicate assignment of acreage is not acceptable, provided, however, that this limitation shall not prevent the reformation of development or proration units so long as no duplicate assignment of acreage occurs, and further, that such reformation does not violate other conservation regulations.

The maximum daily allowable for the combined production will be limited to the top allowable for the **SPRABERRY (TREND AREA)** field and will become effective upon receipt of Form W-2 showing combined completion data and results of a 24-hour production test taken after the physical work of down hole commingling has been completed. Please indicate in "remarks" the reason for filing this report, giving date of Commission approval of this Rule 10 exception.

1701 NORTH CONGRESS AVENUE • POST OFFICE BOX 12967 • AUSTIN, TEXAS 78711-2967 • PHONE: 512/463-6838 • FAX: 512/463-6955
TDD 800/735-2989 • AN EQUAL OPPORTUNITY EMPLOYER • http://www.rrc.state.tx.us

Page 1 of 2



Application for Exception to SWR 10, January 28, 2013
HARDY 18 — WELL NO. 8, API NO. 173-35230

Should secondary recovery operations be initiated in either of these reservoirs, it may be necessary to segregate these zones. If surface-commingling authority has been granted, it may be necessary to amend or cancel this authority.

Permit conditions:

The completion report for the commingled well must indicate which perforations belong to which field. The Commission may also require a wellbore diagram to be filed with the completion report for the commingled well. If filed, the wellbore diagram must indicate which perforations belong to which field.

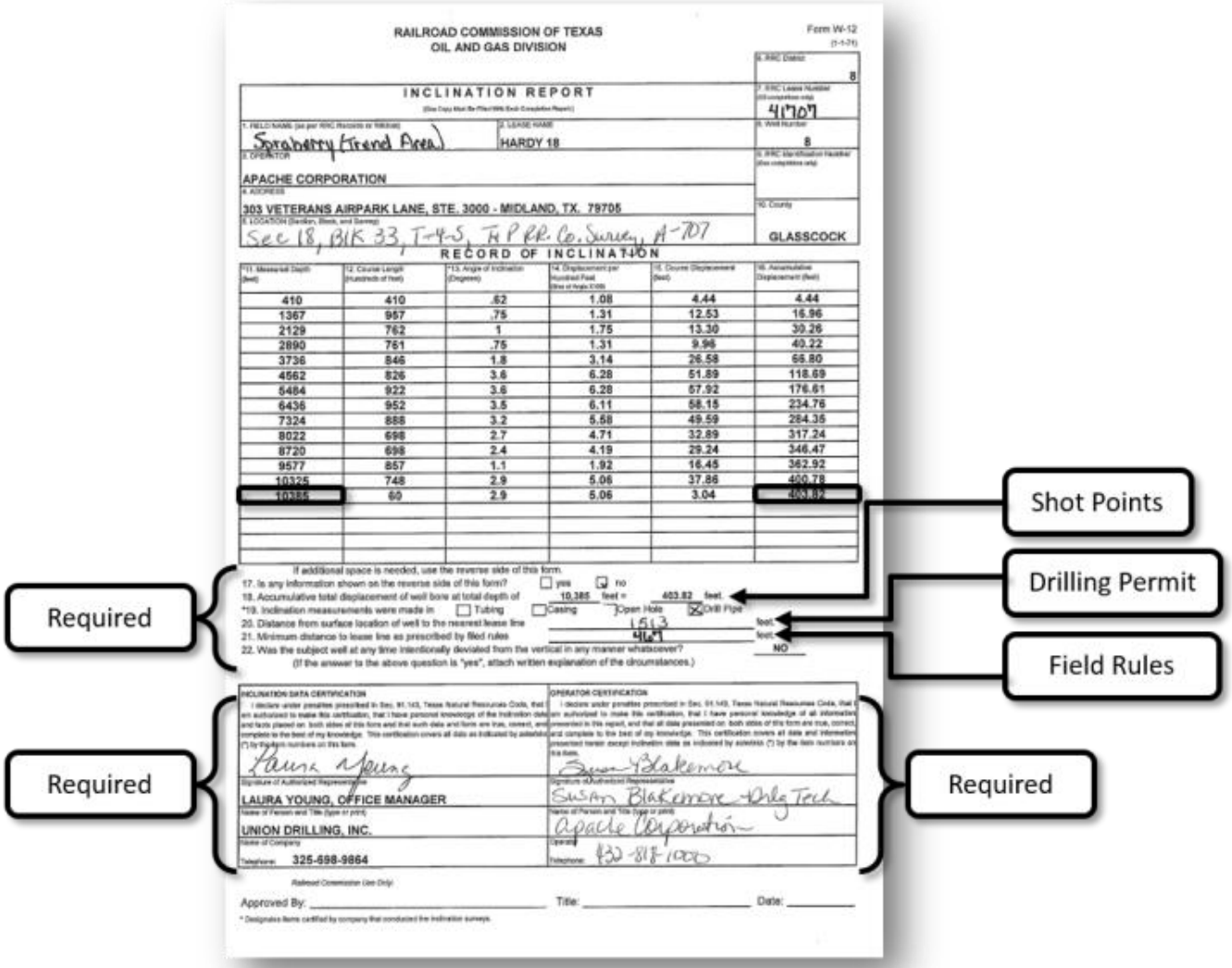
Note: The distribution of this document will be by E-MAIL ONLY. E-mail sent to keisha.stark@apachecorp.com.

If you have any questions, you may contact the engineering unit in the Austin office at 512-475-2307.

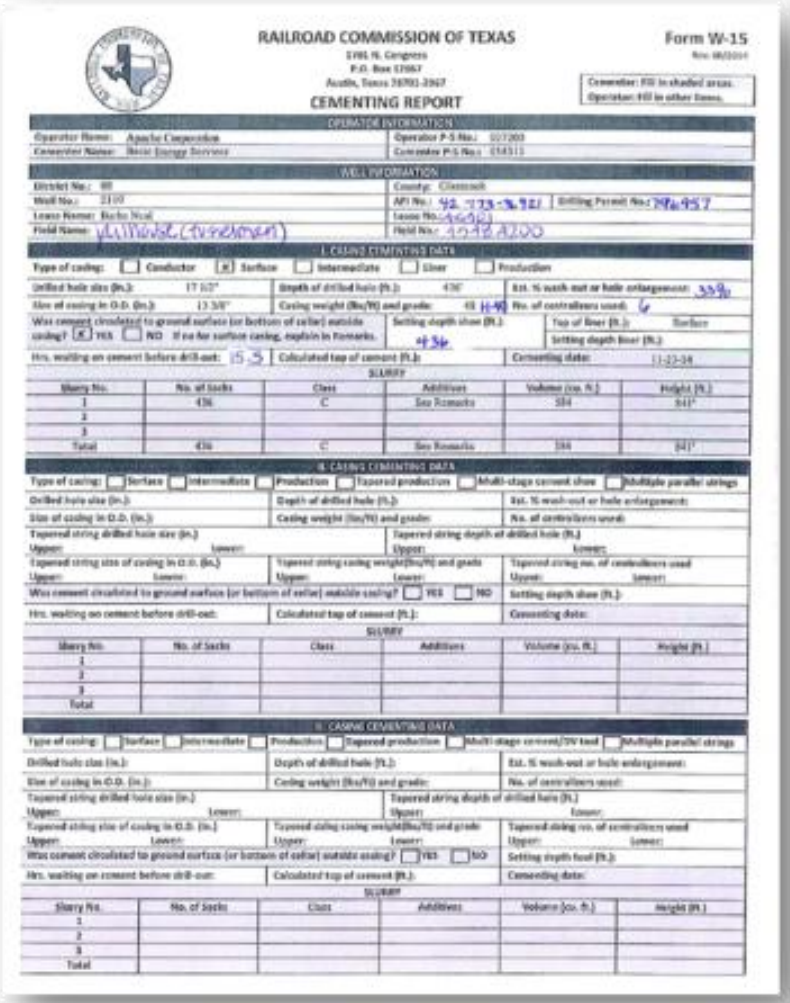
1701 NORTH CONGRESS AVENUE • POST OFFICE BOX 12967 • AUSTIN, TEXAS 78711-2967 • PHONE: 512/463-6838 • FAX: 512/463-6955
TDD 800/735-2989 • AN EQUAL OPPORTUNITY EMPLOYER • http://www.rrc.state.tx.us

Page 2 of 2

W-12 (Inclination Report)



W-15 (Cementing Report)



RAILROAD COMMISSION OF TEXAS

1701 N. Congress
P.O. Box 12967
Austin, Texas 78701-2967

Form W-15

CEMENTING REPORT

Cementer: Fill in shaded areas.
Operator: Fill in other items.

OPERATOR INFORMATION

Operator Name: Apache Corporation	Operator P-5 No.: 027200
Cementer Name: Basic Energy Services	Cementer P-5 No.: 054511

WELL INFORMATION

District No.: 08	County: Glasscock
Well No.: 2109	API No.: 42-173-38921 Drilling Permit No.: 796957
Lease Name: Bucks Neal	Lease No.: 046961
Field Name: WILDCAT (SPRABERRY)	Field No.: 49788200

I. CASING CEMENTING DATA

Type of casing: ☐ Conductor ☒ Surface ☐ Intermediate ☐ Liner ☐ Production

Drilled hole size (in.): 17 1/2"	Depth of drilled hole (ft.): 436'	Est. % wash-out or hole enlargement: 35%	
Size of casing in O.D. (in.): 13 3/8"	Casing weight (lbs/ft) and grade: 48 H40	No. of centralizers used: 6	
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☒ YES ☐ NO If no for surface casing, explain in Remarks.	Setting depth shoe (ft.): 436	Top of liner (ft.): Surface	Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: 15.5	Calculated top of cement (ft.):	Cementing date: 11-23-14	

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	436	C	See Remarks	514	841'
2					
3					
Total	436	C	See Remarks	514	841'

II. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement shoe ☐ Multiple parallel strings

Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:
Tapered string drilled hole size (in.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☐ NO		Setting depth shoe (ft.):
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

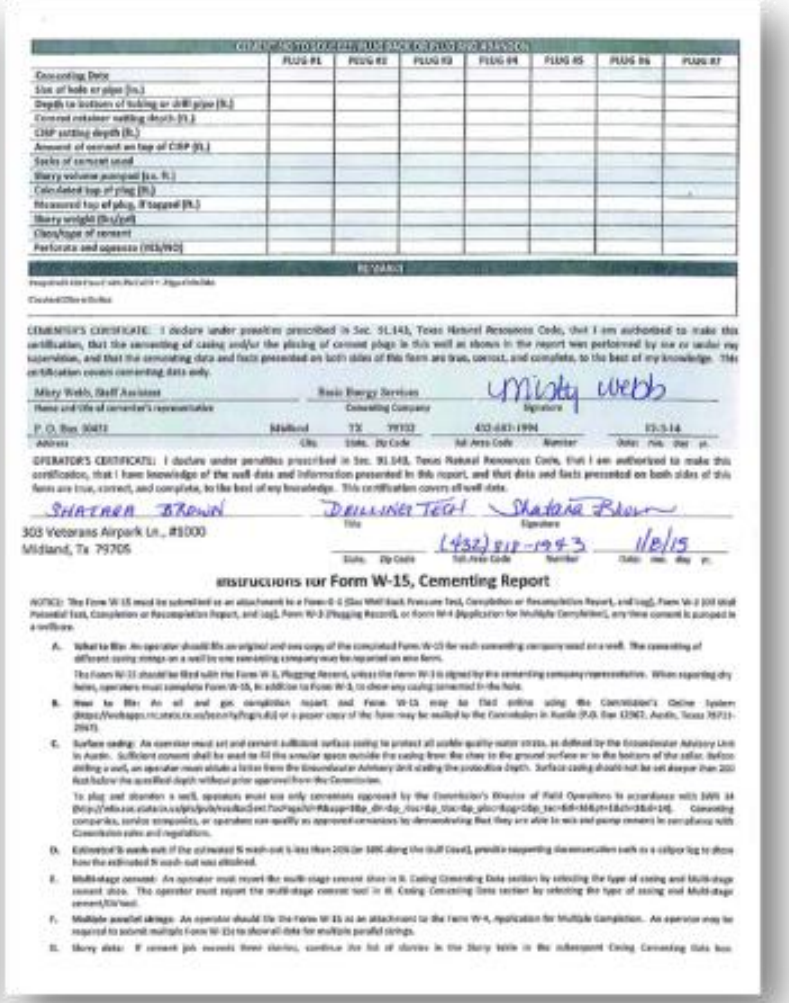
II. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement/DV tool ☐ Multiple parallel strings

Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:
Tapered string drilled hole size (in.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☐ NO		Setting depth float (ft.):
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					



	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date							
Size of hole or pipe (in.)							
Depth to bottom of tubing or drill pipe (ft.)							
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)							
Amount of cement on top of CIBP (ft.)							
Sacks of cement used							
Slurry volume pumped (cu. ft.)							
Calculated top of plug (ft.)							
Measured top of plug, if tagged (ft.)							
Slurry weight (lbs/gal)							
Class/type of cement							
Perforate and squeeze (YES/NO)							

REMARKS

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Misty Webb, Staff Assistant — Basic Energy Services — Misty Webb
Name and title of cementer's representative — Cementing Company — Signature

P. O. Box 10460 — Midland — TX — 79702 — 432-683-1994 — 11-3-14
Address — City — State — Zip Code — Tel. Area Code — Number — Date

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

SHATHEN BROWN — DRILLING TECH — Shathen Brown
Name — Title — Signature

303 Veterans Airpark Ln., #1000
Midland, Tx 79705

(432) 818-1943 — 11/6/15
Tel. Area Code — Number — Date

Instructions for Form W-15, Cementing Report

NOTICE: This Form W-15 must be submitted as an attachment to a Form G-1 (Gas Well Back Pressure Test, Completion or Recompletion Report, and Log), Form W-2 (Oil Well Potential Test, Completion or Recompletion Report, and Log), Form W-3 (Plugging Record), or Form W-4 (Application for Multiple Completion), any time cement is pumped in a wellbore.

A. What to file: An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form.

This Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. How to file: An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System (https://webapps.rrc.state.tx.us/base/login.do) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2967).

C. Surface casing: An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protective depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 (http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14). Cementing companies, service companies, or operators not qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

D. Estimated % wash-out: If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.

E. Multi-stage cement: An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.

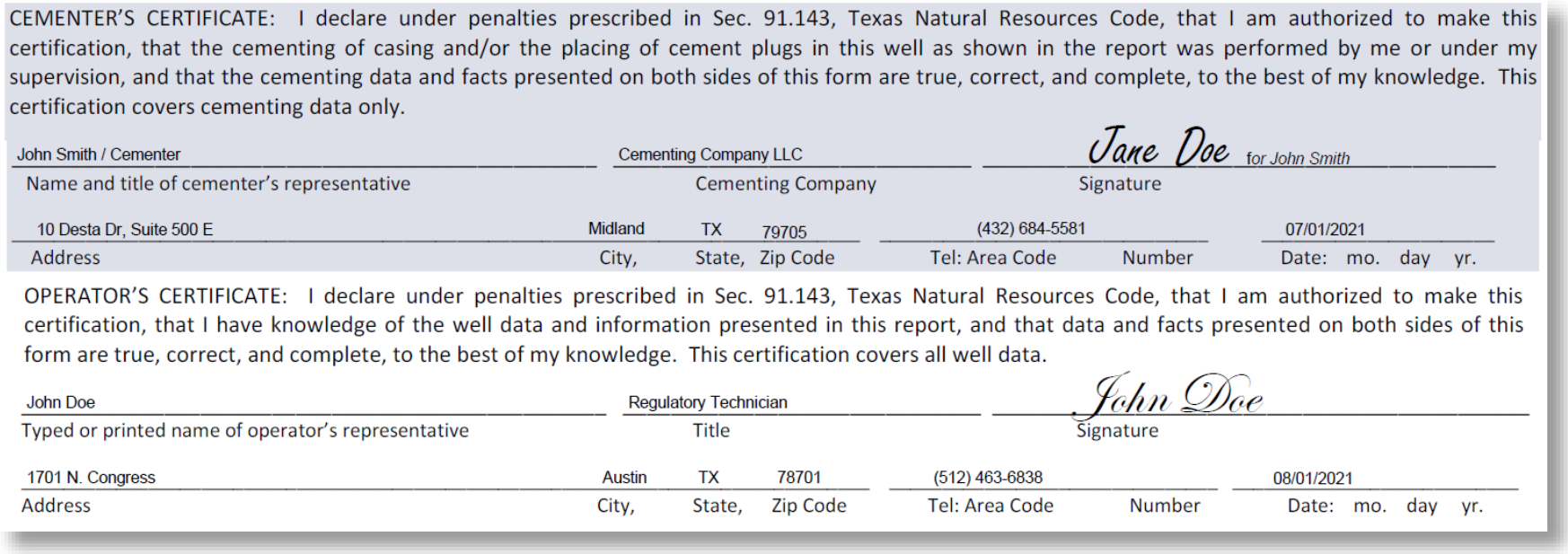
F. Multiple parallel strings: An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.

G. Slurry data: If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.

W-15 (Important Notes)

Full and complete signatures from both operator and cementer are required.

- Digital signatures are acceptable
- Initials are not acceptable.



CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

John Smith / Cementer	Cementing Company LLC	Jane Doe for John Smith
Name and title of cementer's representative	Cementing Company	Signature

10 Desta Dr, Suite 500 E	Midland	TX	79705	(432) 684-5581	07/01/2021
Address	City,	State,	Zip Code	Tel: Area Code Number	Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

John Doe	Regulatory Technician	John Doe
Typed or printed name of operator's representative	Title	Signature

1701 N. Congress	Austin	TX	78701	(512) 463-6838	08/01/2021
Address	City,	State,	Zip Code	Tel: Area Code Number	Date: mo. day yr.

W-15 (Changes)

Operator is not authorized to alter cementing information without Cementer's approval.

- If change was made, will need both Cementer and Operator representative's name authorizing change and date on W-15.
- If change was made without Cementer's approval, operator will be required to request/submit a new cementing report.

W-15 (Well Information)

Packet Summary Data	Submitted: Online
Tracking No.: **185192**	Status: **Approved (04/26/2018)**
Operator Name: **APACHE CORPORATION (027200)**	Type Of Completion: **New Well**
Field Name: **SPRABERRY (TREND AREA) R 40 EXC**	Completion or Recompletion Date: **09/11/2017**
Lease Name: **SCHROCK, W.M. 2326**	Purpose Of Filing: **Well Record Only**
RRC District No.: **08**	Well Type: **Shut-In Producer**
RRC Gas ID or Oil Lease No.: **49796**	County: **MIDLAND**
Well No.: **9HA**	Wellbore Profile: **HORIZONTAL**
API No.: **329-41595**	Horiz WB Completion Type:
Drilling Permit No: **824312**	SL Record (Parent) Well Drilling Permit No.:
Field No.: **85280301**	Horizontal Depth Severance (feet): **8400**
Field Validated Date: **06/15/2018**	Unit No:
Submitted: **(01/03/2018)**	

MUST MATCH

RAILROAD COMMISSION OF TEXAS
1701 N. Congress
P.O. Box 12967
Austin, Texas 78701-2967

Form W-15
Rev. 08/2014

CEMENTING REPORT

Cementer: Fill in shaded areas.
Operator: Fill in other items.

OPERATOR INFORMATION			
Operator Name: Apache Corporation		Operator P-5 No.: 027200	
Cementer Name: Basic Energy Services		Cementer P-5 No.: 054313	
WELL INFORMATION			
District No.: 08		County: Midland	
Well No.: 9 HA		API No.: 42-329-41595	Drilling Permit No.: 824312
Lease Name: Schrock WM 2326		Lease No.:	
Field Name: Spraberry (Trend Area) R40 Exc.		Field No.: 85280301	

W-15 (Sec. I for Operator)

Casing Cementing Data -

Conductor, Surface, Intermediate, Liner & Production

I. CASING CEMENTING DATA

Type of casing: ☐ Conductor ☐ Surface ☐ Intermediate ☐ Liner ☐ Production					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☐ NO If no for surface casing, explain in Remarks.		Setting depth shoe (ft.):		Top of liner (ft.):	
				Setting depth liner (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

W-15 (Sec. I for Cementer)

RRC Approved Cementer fills out Shaded Areas:

Conductor, Surface, Intermediate, Liner & Production

I. CASING CEMENTING DATA

Type of casing: ☐ Conductor ☐ Surface ☐ Intermediate ☐ Liner ☐ Production

Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☐ NO If no for surface casing, explain in Remarks.	Setting depth shoe (ft.):	Top of liner (ft.): Setting depth liner (ft.):
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

W-15 (Data for Sec. I)

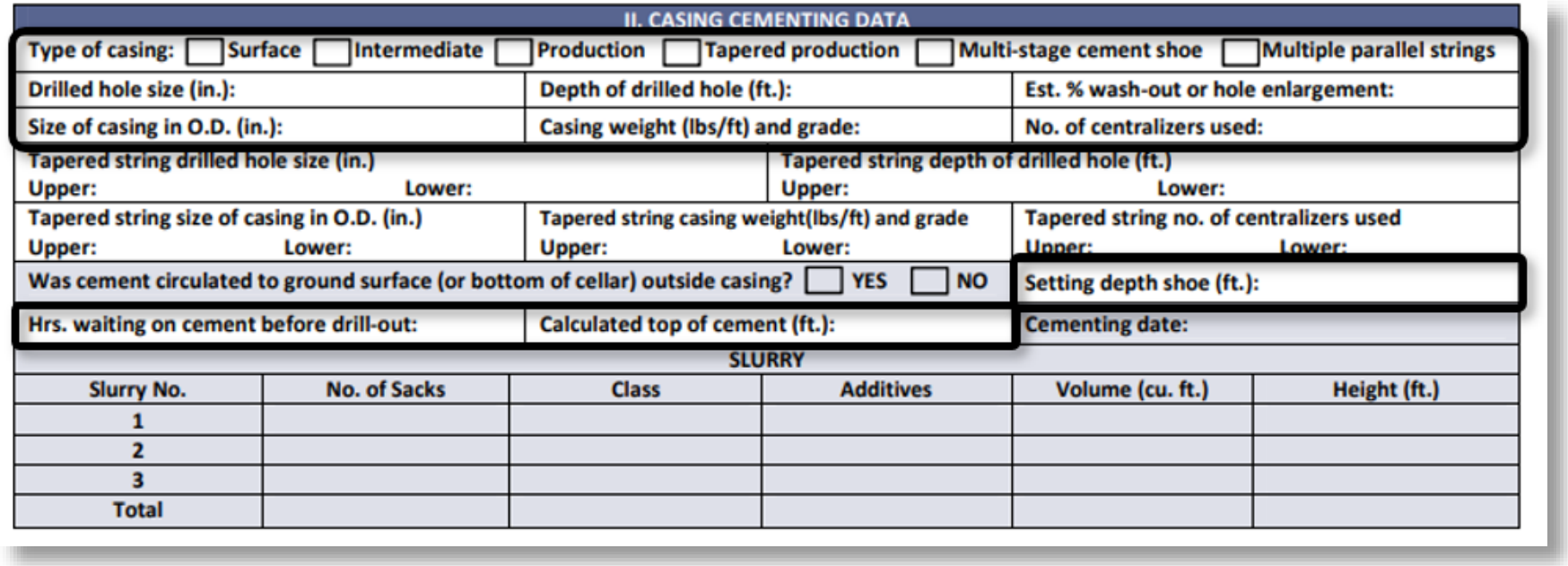
Sec. I Casing Cementing Data - Intermediate or Production

I. CASING CEMENTING DATA

Type of casing: ☐ Conductor ☐ Surface ☐ Intermediate ☐ Liner ☐ Production					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☐ NO If no for surface casing, explain in Remarks.		Setting depth shoe (ft.):		Top of liner (ft.):	
				Setting depth liner (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

W-15 (Data for Sec. II)

Sec. II Casing Cementing Data - Intermediate or Production



II. CASING CEMENTING DATA					
Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement shoe ☐ Multiple parallel strings					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Tapered string drilled hole size (in.) Upper: Lower:		Tapered string depth of drilled hole (ft.) Upper: Lower:			
Tapered string size of casing in O.D. (in.) Upper: Lower:		Tapered string casing weight(lbs/ft) and grade Upper: Lower:		Tapered string no. of centralizers used Upper: Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☐ NO				Setting depth shoe (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

W-15 (Data for Tapered Hole or String)

Sec. II or III Casing Cementing Data -
Tapered Hole or Tapered String

II. CASING CEMENTING DATA					
Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement shoe ☐ Multiple parallel strings					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Tapered string drilled hole size (in.) Upper: Lower:		Tapered string depth of drilled hole (ft.) Upper: Lower:			
Tapered string size of casing in O.D. (in.) Upper: Lower:		Tapered string casing weight(lbs/ft) and grade Upper: Lower:		Tapered string no. of centralizers used Upper: Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☐ NO				Setting depth shoe (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

W-15 (Multi-Stage Data for Sec. II)

Sec. II Casing Cementing Data - Multi-Stage Cement Shoe

II. CASING CEMENTING DATA

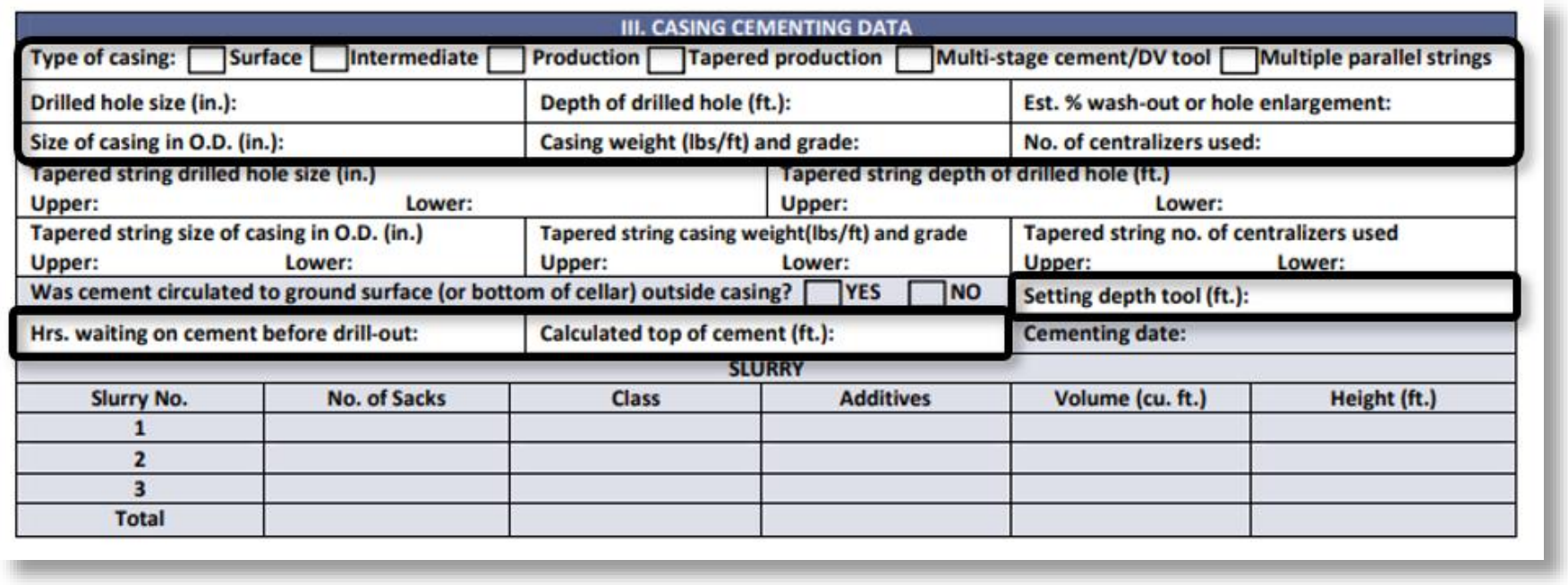
Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement shoe ☐ Multiple parallel strings		
Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:
Tapered string drilled hole size (in.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☐ NO		Setting depth shoe (ft.):
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

W-15 (Multi-Stage Data for Sec. III)

Sec. III Casing Cementing Data - Multi-Stage Cement/DV Tool



III. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement/DV tool ☐ Multiple parallel strings		
Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:
Tapered string drilled hole size (in.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☐ NO		Setting depth tool (ft.):
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

W-15 (Plugs on Back of W-15)

Cementing to

- Squeeze
- Plug Back
- Plug And Abandon

CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON							
	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date							
Size of hole or pipe (in.)							
Depth to bottom of tubing or drill pipe (ft.)							
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)							
Amount of cement on top of CIBP (ft.)							
Sacks of cement used							
Slurry volume pumped (cu. ft.)							
Calculated top of plug (ft.)							
Measured top of plug, if tagged (ft.)							
Slurry weight (lbs/gal)							
Class/type of cement							
Perforate and squeeze (YES/NO)							

REMARKS

W-15 (Cement Squeeze)

If squeeze or plug back, recompletion information will appear under several completion tabs:

- W-15 is **required** to be attached for well to be removed from schedule.

• Packet Data Tab –

If recompletion or reclass, give former field (with reservoir) & gas ID or oil lease No.:

Row	Field & Reservoir	Lease No.	Well Type	Well No.	District Code	Field No.	Prior Service Type
1	BENEDUM (FUSSELMAN)	16562	Oil Well	4	7C	07109500	Producing

• Page 2 Plug Back Depth Changes –

Vertical Depth: 11969 feet

Total Vertical Depth, **Drilling Permit value**: 12000 feet

Plug Back Depth - TVD: 11000 feet

• Page 5 Completion Tab –

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUGS, RETAINER, ETC.

Depth Interval	From (feet)	To (feet)	Amount and Kind of Material Used	Process
1	7495.0	10617.0	1,771,746 SLICKWATER 15#BXL/1,041,780 20/40 WHITE SAND	Fracture
2	11020.0	11020.0	5 SACKS CLASS C CEMENT DUMPED ON CIBP	Cast Iron Bridge Plug

Remarks:

W-21 (Application for Exc. to SWR-21)

Railroad Commission of Texas
Oil and Gas Division

Application for Exception to Statewide Rule 21 to Produce by Swabbing, Bailing, or Jetting

Form W-21

Operator Name		Operator No.
Address (Street, City, State and Zip Code)		
RRC District No.	County	
Lease Name	RRC Lease ID No.	Well No.
Field Name	RRC Field No.	
Location (Section, Block, Survey - Give perpendicular location from two designated survey lines.)		

Casing and Tubing Data

Name of String	Size	Weight	Hole Size	Setting Depth	Sacks Cement/Top of Cement	Top Determined By
Surface Casing						
Intermediate						
Long String						

Tubing (Size and Depth)	Is production by Swabbing Bailing Jetting Other (attach explanation)	Total Depth of Well
Perforated Interval Top Bottom	Is production through Tubing or Casing	Is the Wellbore subject to SWR 36? (H_2S) Yes or No
Date Well Drilled	Is production through Perforations or Open Hole	API No.
Depth to Base of Deepest Fresh Water Zone (Attach copy of Water Board Letter)	Is production to Tank Battery or Mobile Unit	Anticipated Monthly Production
Are there any other Wells producing by swabbing, bailing, or jetting in this Field? Yes or No	Wellhead Control (Type and Model No.)	
Names and Addresses of Surface Owners (attach list if necessary)		
Names and Addresses of Mineral Interest Owners of Record (attach list if necessary)		

Signature

Name of Person (Print) Title

Date Telephone

CERTIFICATE

I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, that I am authorized to make this application, that this application was prepared by me or under my supervision and that the information stated herein is true, correct and complete, to the best of my knowledge

P-12 (Certificate of Pooling Authority)

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division
PO Box 12967
Austin, Texas 78711-2967
www.rrc.state.tx.us

CERTIFICATE OF POOLING AUTHORITY

P-12

Revised 05/2001

1. Field Name(s)	2. Lease/ID Number (if assigned)	3. RRC District Number
SPRABERRY (TREND AREA)	39874	08
4. Operator Name	**5. Operator P-5 Number**	**6. Well Number**
APACHE CORPORATION	027200	1A
7. Pooled Unit Name	**8. API Number**	**9. Purpose of Filing**
GIBSON 7 UNIT	42-173-34572	☑ Drilling Permit (W-1)
10. County	**11. Total acres in pooled unit**	☐ Completion Report
GLASSCOCK	160	

DESCRIPTION OF INDIVIDUAL TRACTS CONTAINED WITHIN THE POOLED UNIT

Tract/Plat Identifier	Tract Name	Acres in Tract (See inst. #7 below)	Indicate Undivided Interests Unleased	Non-Pooled
TRACT 1	NW/4- EXCEPT HWY 158 ROW	153.48	☐	☐
TRACT 2	STATE OF TX HWY 158 ROW	6.52	☐	☐
			☐	☐
			☐	☐
			☐	☐
			☐	☐
			☐	☐
			☐	☐
			☐	☐
			☐	☐
			☐	☐

CERTIFICATION:

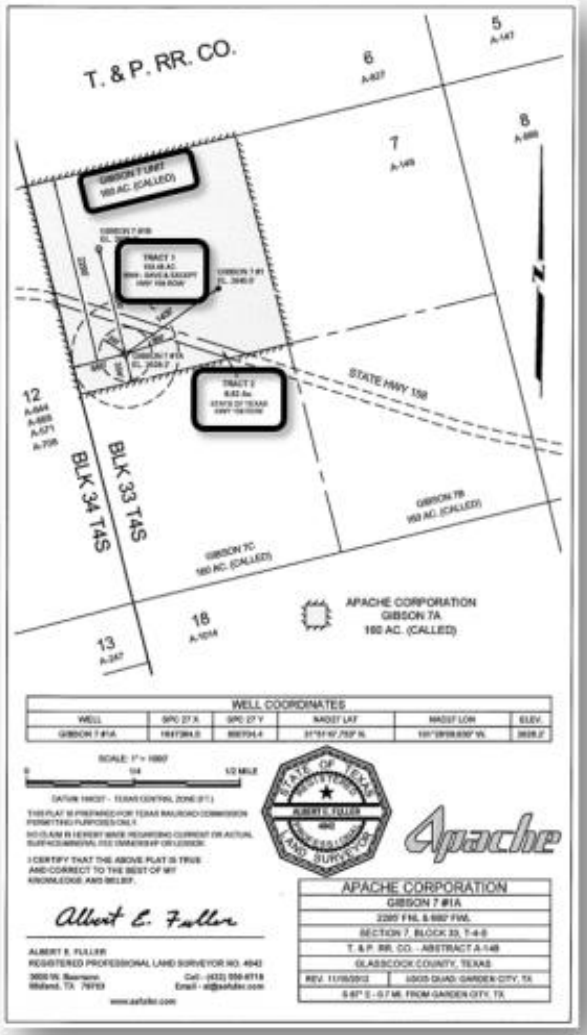
I declare under penalties prescribed pursuant to the Sec. 91.143, Texas Natural Resources Code, that I am authorized to make the foregoing statements and that the information provided by me or under my direction on this Certificate of Pooling Authority is true, correct, and complete to the best of my knowledge.

Signature: KStark — Print Name: KEISHA STARK

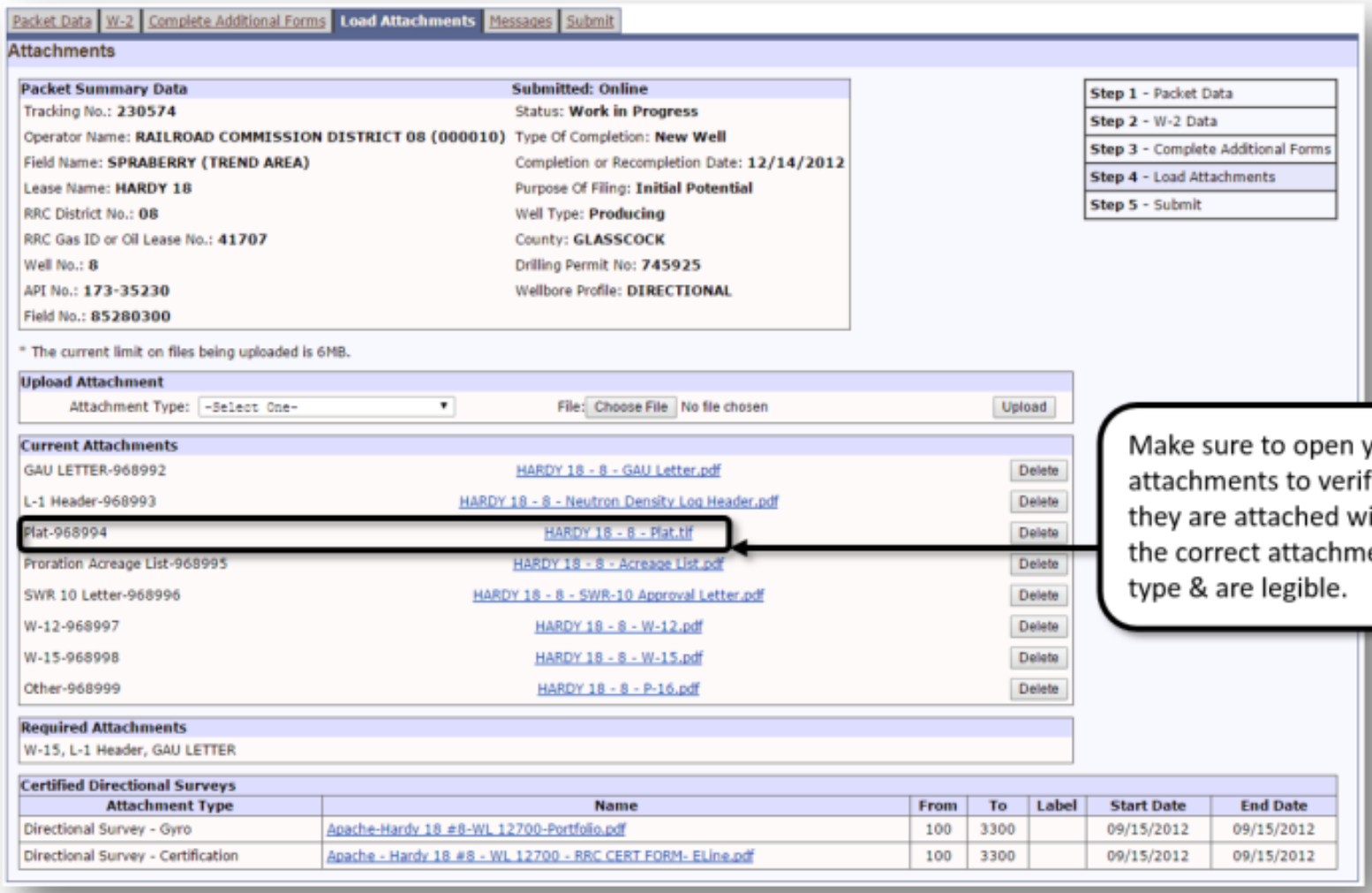
Title	E-mail (if available)	Date	Phone
REGULATORY TECH	Keisha.Stark@apachecorp.com	11/15/2012	(432) 818-1181

INSTRUCTIONS — Reference: Statewide Rules 31, 38 and 40

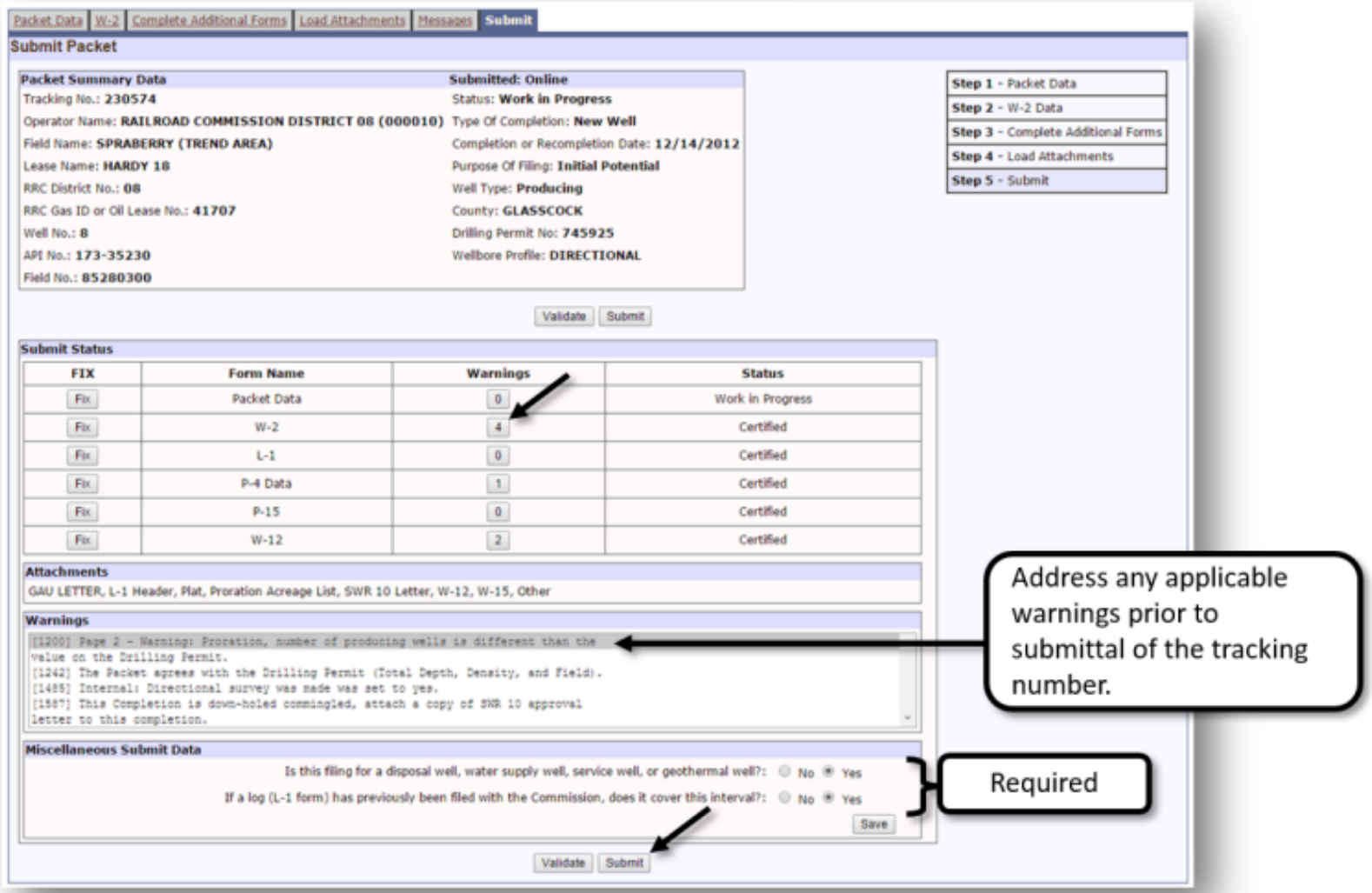
1. When two or more tracts are pooled to form a unit to obtain a drilling permit, file completion paperwork, or reform a pooled unit pursuant to Rule 38(d)(3) the operator must file an original Certificate of Pooling Authority and certified plat.
2. The certified plat shall designate each tract with an outline and a tract identifier. The tract identifier on the plat shall correspond to the tract identifier and associated information listed on the Certificate.
3. If within an individual tract, a non-pooled and/or unleased interest exists, indicate by checking the appropriate box.
4. If the Purpose of Filing is to obtain a drilling permit, in box #1 list all applicable fields separately or enter "All Fields" if the Certificate pertains to all fields requested on Form W-1.
5. If the Purpose of Filing is to file completion paperwork, enter the applicable field name in box #1 for the completion.
6. Identify the drill site tract with an * to the left of the tract identifier.
7. The total number of acres in the pooled unit in #11 should equal the total of all acres in the individual tracts listed.



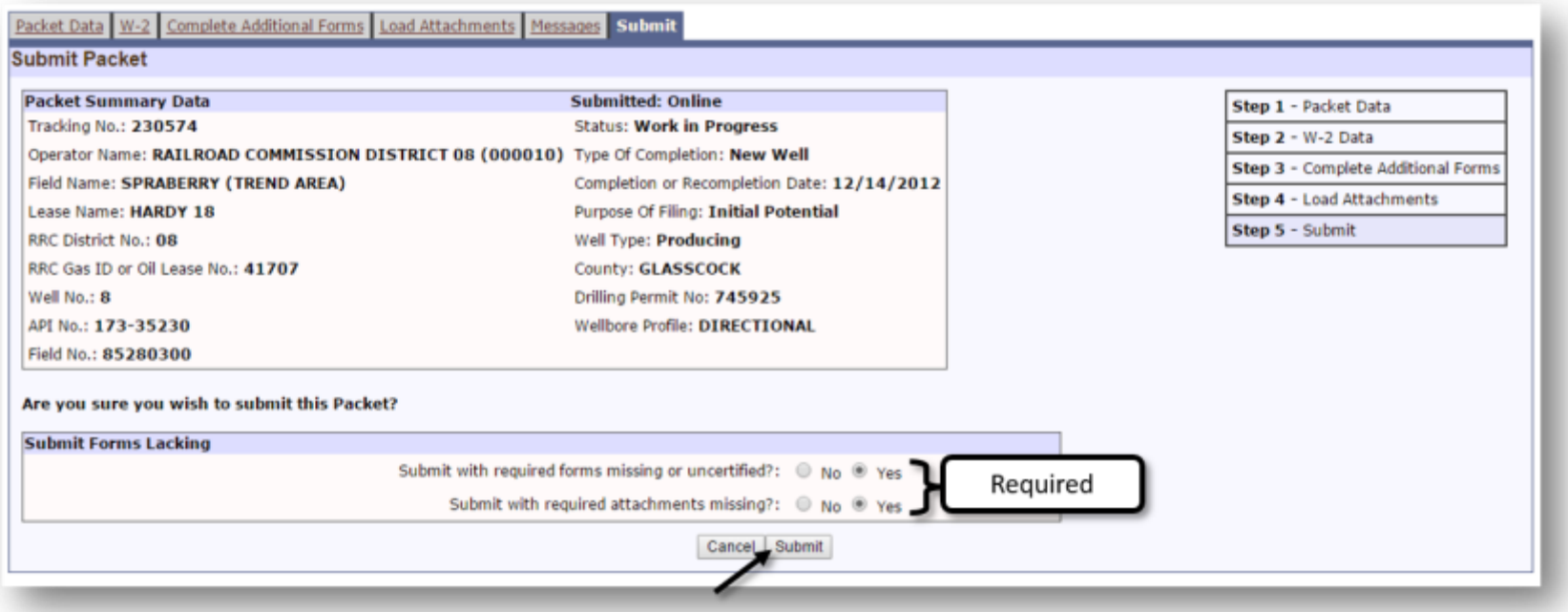
Verify Attachments



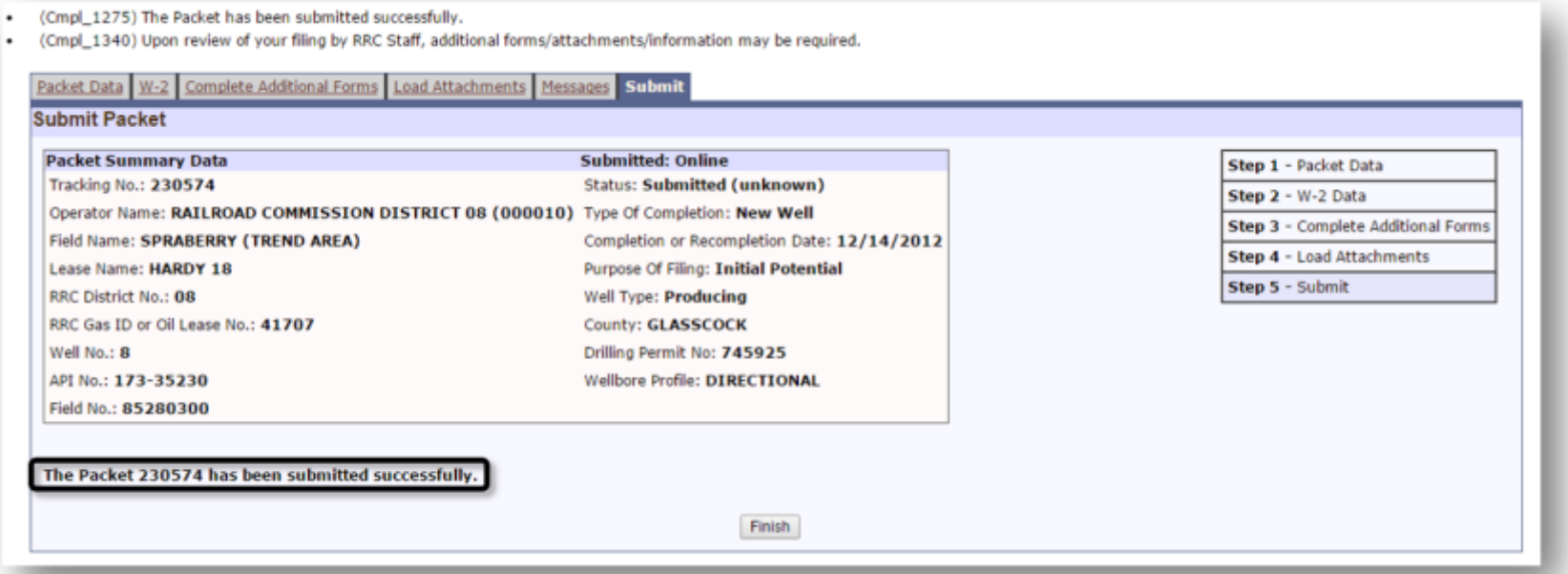
Submittal Page



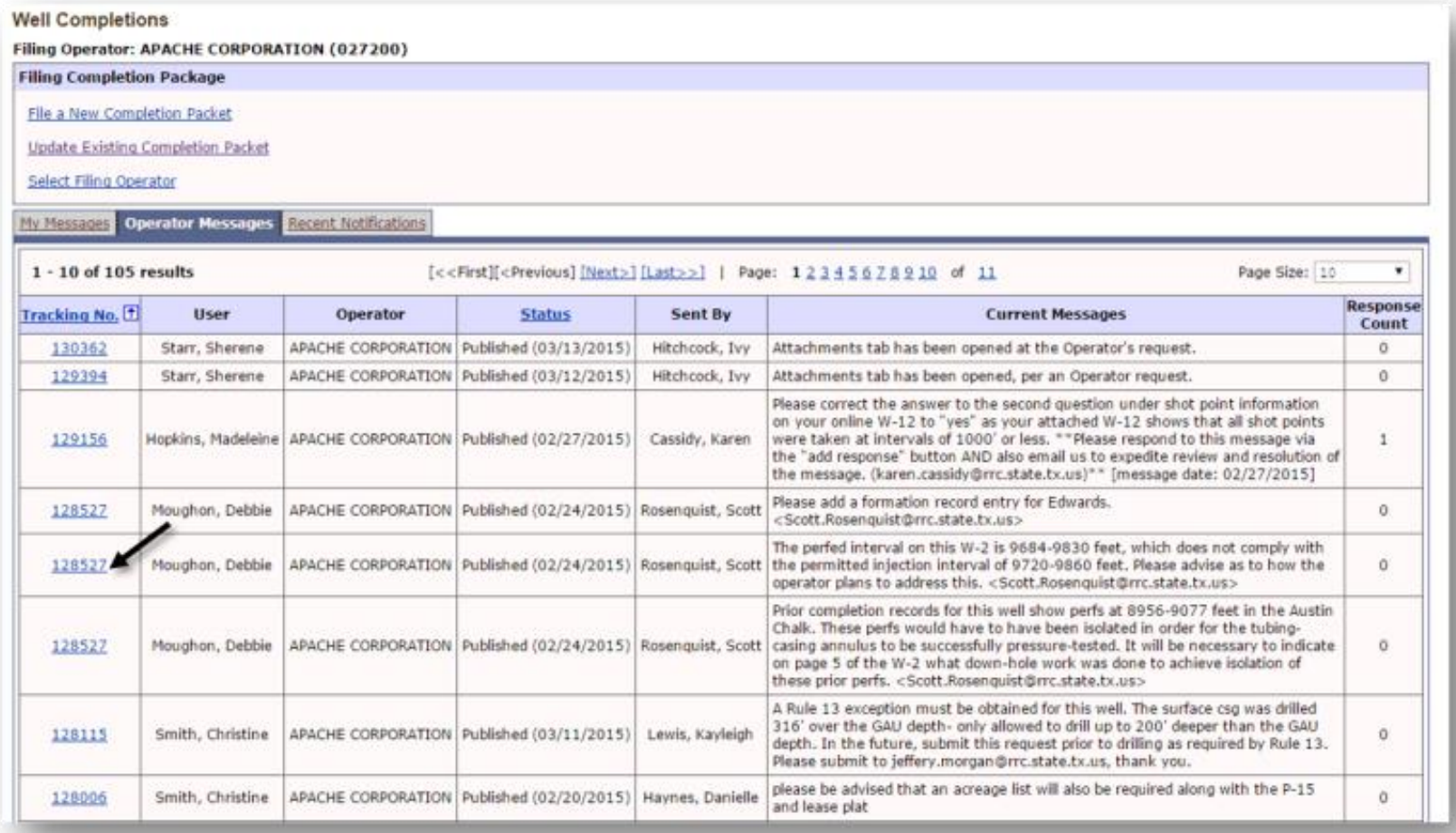
Submit Forms Lacking



Finished


(Cmpl_1275) The Packet has been submitted successfully.
(Cmpl_1340) Upon review of your filing by RRC Staff, additional forms/attachments/information may be required.
Packet Data
W-2
Complete Additional Forms
Load Attachments
Messages
Submit
Submit Packet
Packet Summary Data
Submitted: Online
Tracking No.: 230574
Status: Submitted (unknown)
Operator Name: RAILROAD COMMISSION DISTRICT 08 (000010)
Type Of Completion: New Well
Field Name: SPRABERRY (TREND AREA)
Completion or Recompletion Date: 12/14/2012
Lease Name: HARDY 18
Purpose Of Filing: Initial Potential
RRC District No.: 08
Well Type: Producing
RRC Gas ID or Oil Lease No.: 41707
County: GLASSCOCK
Well No.: 8
Drilling Permit No: 745925
API No.: 173-35230
Wellbore Profile: DIRECTIONAL
Field No.: 85280300
Step 1 - Packet Data
Step 2 - W-2 Data
Step 3 - Complete Additional Forms
Step 4 - Load Attachments
Step 5 - Submit
The Packet 230574 has been submitted successfully.
Finish

Message Review



Well Completions

Filing Operator: APACHE CORPORATION (027200)

Filing Completion Package

File a New Completion Packet

Update Existing Completion Packet

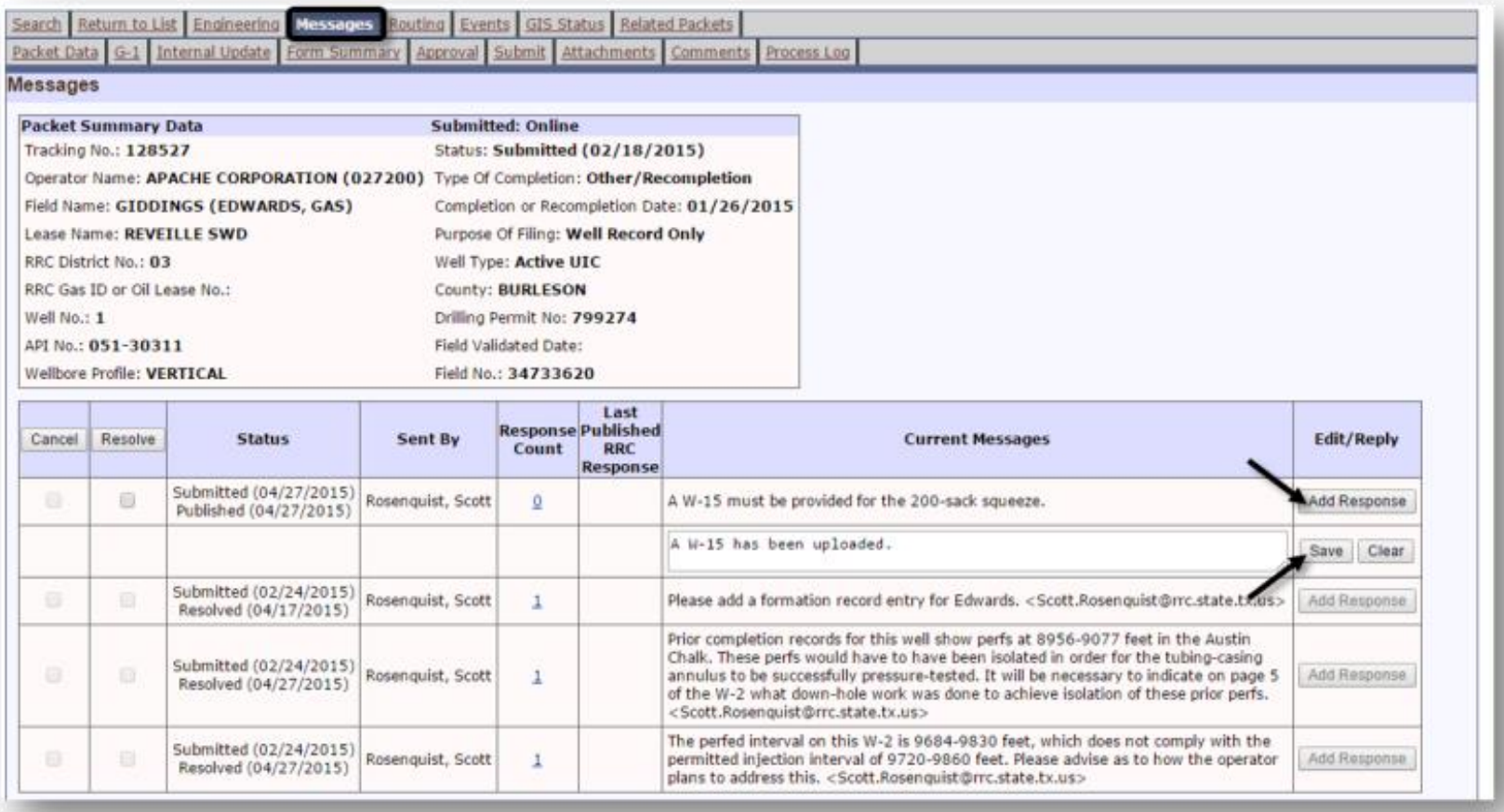
Select Filing Operator

My Messages | Operator Messages | Recent Notifications

1 - 10 of 105 results [<<First][<Previous] [Next>] [Last>>] | Page: 1 2 3 4 5 6 7 8 9 10 of 11 Page Size: 10

Tracking No.	User	Operator	Status	Sent By	Current Messages	Response Count
130362	Starr, Sherene	APACHE CORPORATION	Published (03/13/2015)	Hitchcock, Ivy	Attachments tab has been opened at the Operator's request.	0
129394	Starr, Sherene	APACHE CORPORATION	Published (03/12/2015)	Hitchcock, Ivy	Attachments tab has been opened, per an Operator request.	0
129156	Hopkins, Madeleine	APACHE CORPORATION	Published (02/27/2015)	Cassidy, Karen	Please correct the answer to the second question under shot point information on your online W-12 to "yes" as your attached W-12 shows that all shot points were taken at intervals of 1000' or less. **Please respond to this message via the "add response" button AND also email us to expedite review and resolution of the message. (karen.cassidy@rrc.state.tx.us)** [message date: 02/27/2015]	1
128527	Moughon, Debbie	APACHE CORPORATION	Published (02/24/2015)	Rosenquist, Scott	Please add a formation record entry for Edwards. <Scott.Rosenquist@rrc.state.tx.us>	0
128527	Moughon, Debbie	APACHE CORPORATION	Published (02/24/2015)	Rosenquist, Scott	The perfed interval on this W-2 is 9684-9830 feet, which does not comply with the permitted injection interval of 9720-9860 feet. Please advise as to how the operator plans to address this. <Scott.Rosenquist@rrc.state.tx.us>	0
128527	Moughon, Debbie	APACHE CORPORATION	Published (02/24/2015)	Rosenquist, Scott	Prior completion records for this well show perfs at 8956-9077 feet in the Austin Chalk. These perfs would have to have been isolated in order for the tubing-casing annulus to be successfully pressure-tested. It will be necessary to indicate on page 5 of the W-2 what down-hole work was done to achieve isolation of these prior perfs. <Scott.Rosenquist@rrc.state.tx.us>	0
128115	Smith, Christine	APACHE CORPORATION	Published (03/11/2015)	Lewis, Kayleigh	A Rule 13 exception must be obtained for this well. The surface csg was drilled 316' over the GAU depth- only allowed to drill up to 200' deeper than the GAU depth. In the future, submit this request prior to drilling as required by Rule 13. Please submit to jeffery.morgan@rrc.state.tx.us, thank you.	0
128006	Smith, Christine	APACHE CORPORATION	Published (02/20/2015)	Haynes, Danielle	please be advised that an acreage list will also be required along with the P-15 and lease plat	0

Adding Responses



Search | Return to List | Engineering | **Messages** | Routing | Events | GIS Status | Related Packets

Packet Data | G-1 | Internal Update | Form Summary | Approval | Submit | Attachments | Comments | Process Log

Messages

Packet Summary Data	**Submitted: Online**
Tracking No.: **128527**	Status: **Submitted (02/18/2015)**
Operator Name: **APACHE CORPORATION (027200)**	Type Of Completion: **Other/Recompletion**
Field Name: **GIDDINGS (EDWARDS, GAS)**	Completion or Recompletion Date: **01/26/2015**
Lease Name: **REVEILLE SWD**	Purpose Of Filing: **Well Record Only**
RRC District No.: **03**	Well Type: **Active UIC**
RRC Gas ID or Oil Lease No.:	County: **BURLESON**
Well No.: **1**	Drilling Permit No: **799274**
API No.: **051-30311**	Field Validated Date:
Wellbore Profile: **VERTICAL**	Field No.: **34733620**

Cancel	Resolve	Status	Sent By	Response Count	Last Published RRC Response	Current Messages	Edit/Reply
☐	☐	Submitted (04/27/2015) Published (04/27/2015)	Rosenquist, Scott	0		A W-15 must be provided for the 200-sack squeeze.	Add Response
						A W-15 has been uploaded.	Save Clear
☐	☐	Submitted (02/24/2015) Resolved (04/17/2015)	Rosenquist, Scott	1		Please add a formation record entry for Edwards. <Scott.Rosenquist@rrc.state.tx.us>	Add Response
☐	☐	Submitted (02/24/2015) Resolved (04/27/2015)	Rosenquist, Scott	1		Prior completion records for this well show perfs at 8956-9077 feet in the Austin Chalk. These perfs would have to have been isolated in order for the tubing-casing annulus to be successfully pressure-tested. It will be necessary to indicate on page 5 of the W-2 what down-hole work was done to achieve isolation of these prior perfs. <Scott.Rosenquist@rrc.state.tx.us>	Add Response
☐	☐	Submitted (02/24/2015) Resolved (04/27/2015)	Rosenquist, Scott	1		The perfed interval on this W-2 is 9684-9830 feet, which does not comply with the permitted injection interval of 9720-9860 feet. Please advise as to how the operator plans to address this. <Scott.Rosenquist@rrc.state.tx.us>	Add Response

Contact District Office

For immediate assistance regarding the casing and cementing questions please call the appropriate District Office.

District: 01 & 02 (San Antonio) 112 E. Pecan Street, Suite 705 San Antonio, TX 78205 **Phone:** 210-227-1313 **Fax:** 210-227-4822	**District: 03 (Houston)** 1919 N Loop West, Suite 620 Houston, TX 77008 **Phone:** 713-869-5001 **Fax:** 713-869-9621	**District: 04 (Corpus Christi)** 10320 I-37 Corpus Christi, TX 78410 **Phone:** 361-242-3113 **Fax:** 361-242-9613	**District: 05 & 06 (Kilgore)** 2005 North State Highway 42 Kilgore, TX 75662 **Phone:** 903-984-3026 **Fax:** 903-983-3413	**District: 7B (Abilene)** 3444 North First St, Suite 600 Abilene, TX 79603 **Phone:** 325-677-3545 **Fax:** 325-677-7122
District: 7C (San Angelo) 622 South Oakes St, Suite J San Angelo, TX 76903 **Phone:** 325-657-7450 **Fax:** 325-657-7455	**District: 08 (Midland)** 10 Desta Dr, Suite 500 E Midland, TX 79705 **Phone:** 432-684-5581 **Fax:** 432-684-6005	**District: 8A (Lubbock)** 6302 Iola Avenue, Suite 600 Lubbock, TX 79424 **Phone:** 806-698-6509 **Fax:** 806-698-6532	**District: 09 (Wichita Falls)** 5800 Kell Blvd, Suite 300 Wichita Falls, TX 76310 **Phone:** 940-723-2153 **Fax:** 940-723-5088	**District: 10 (Pampa)** 200 West Foster, Room 300 Pampa, TX 79065 **Phone:** 806-665-1653 **Fax:** 806-665-4217

Contact Engineering

For immediate assistance regarding directional surveys or horizontal wells please call the Engineering Department.

Phone: 512-463-1126

Email: engunit@rrc.texas.gov

Website: https://www.rrc.texas.gov/

Address: P.O. Box 12967, Austin, Texas 78711-2967

Contact Underground Injection Control

For immediate assistance regarding injection or disposal wells please call the UIC Department.

Phone: 512-463-6792

Fax: 512-463-6780

Email: uic@rrc.texas.gov

Website: https://www.rrc.texas.gov/

Address: P.O. Box 12967, Austin, Texas 78711-2967

Contact Well Compliance

For immediate assistance regarding producing or shut-in wells please call the Well Compliance Department.

Phone: 512-463-6975

Email: prorationunit@rrc.texas.gov

Website: https://www.rrc.texas.gov/

Address: P.O. Box 12967, Austin, Texas 78711-2967

Evaluation & Archive Video

Evaluation

- Please complete the evaluation available on the RRC website at https://survey.alchemer.com/s3/6403402/2021-RRC-Regulatory-Webinars-Oil-Gas-and-Pipeline-Safety-Evaluation

Archive Video

- A link to the archive video of the webcast will be available on the same webpage as the presentation.